DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	UUU UUU UUU	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
--	--	--	---	--

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	AAAAAAAAA AA AA AA AA	\$	KK
		\$			

VAX-11 Bliss-32 V4.0-742 CDEBUG.SRCJDBGTASK.B32;1

Page (1)

MODULE DBGTASK (IDENT = 'VO4-000') =

BEGIN

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WRITTEN BY Edward Freedman

December, 1983

MODULE FUNCTION This module contains all routines that parse and execute all commands related to DEBUG's multi-tasking support for ADA.

```
16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
DBGTASK
V04-000
                                                                                                                                                                                        VAX-11 Bliss-32 V4.0-742 [DEBUG.SRC]DBGTASK.B32;1
                                                                                                                                                                                                                                                                   Page
                                                  REQUIRE 'SRC$:DBGPROLOG.REQ';
REQUIRE 'SRC$:DBGEXT.REQ';
                            ! %((REQUIRE OR LIB IN DBGPROLOG? -tbs))%
                                                 LIBRARY 'LIBS: DBGGEN.L32':
                                                                                                                                      ! %((NEEDED FOR FAULT_EXC AND TRAP_EXC -tbs))%
                                                FORWARD ROUTINE

DBG$CONV_TASK_NUM_VALUE : NOVALUE,

DBG$CONV_TASK_VALUE NUM : NOVALUE,

DBG$NEXECUTE_SET_TASK : NOVALUE,

DBG$NEXECUTE_SHOW_TASK : NOVALUE,

DBG$NPARSE_SET_TASK : NOVALUE,

DBG$NPARSE_SHOW_TASK : NOVALUE,

DBG$NPARSE_SHOW_TASK : NOVALUE,

DBG$NPARSE_SHOW_TASK : NOVALUE,

DBG$NPARSE_SHOW_TASK : NOVALUE,
                                                                                                                                          Converts an ADA task number to the corresponding task value. Converts an ADA task value to the corresponding task number.
                                                                                                                                          Execute the SET TASK command
                                                                                                                                          Execute the SHOW TASK command Parse the SET TASK command Parse the SHOW TASK command $((-tbs))%
                                                          LOCAL_ROUT_NAME;
                                                 DBGSGET TEMPMEM,
DBGSNMATCH,
                                                                                                                                     ! Allocates and lists dynamic storage
! Counted string matching routine
! Interface to Address Expression Interpreter
! Converts ASCII input to integer
! Signal a syntax error in command
! Shows current runframe nesting
                                                          DBG$NPARSE_EXPRESSION,
DBG$NSAVE_DECIMAL_INTEGER,
DBG$SYNTAX_ERROR : NOVALUE,
                                                          DBGSTRACEBACK : NOVALUE:
                                                 EXTERNAL ROUTINE ADASDBGEXT : WEAK ADDRESSING MODE (GENERAL): %((WHERE WILL THESE BE DECLARED? -tbs))% IF NOT %DECLARED (ADAS_FACILITY) ! To be declared in STARLET.REQ
                                                                                                                                    ! %((-tbs))%
                                                 LITERAL ADAS_FACILITY = 49;
                                                 EXTERNAL
                                                          DBG$GB_LANGUAGE : BYTE,
DBG$GB_RADIX : VECTOR[3, BYTE],
DBG$RUNFRAME: BLOCK [,BYTE];
                                                                                                                                      ! Code for language setting
                                                                                                                                      ! Radix settings
                                                                                                                                      ! User runframe
                                              1 LITERAL
                                                                   These literals are used both to identify the ADVERB node type and to index into a bitvector to indicate the presence of particular ADVERB
                                                                   or NOUN nodes.
                                                          TASK TASK LIST
TASK ACTIVE
TASK ALL
TASK CALLS
TASK DEADLOCK
TASK FULL
TASK HOLD
TASK NOHOLD
TASK PRIORITY
TASK RELEASE
TASK RESTORE
TASK STATE
                                                                                                                                          NOUN literal
                                                                                                                                          ADVERB (qualifier) literals
                                                                                                                                       ! (synonym for 'RELEASE')
                                                           TASK_STATE
```

```
DBGTASK
V04-000
                                                                                                                                                                                                                                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742 [DEBUG.SRC]DBGTASK.832;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (2)
                                                                                                                        TASK_STATISTICS
TASK_TERMINATE
TASK_VISIBLE
TASK_MAX_QUAL
                                                                                                                                                                                                                                                = 11.
           95678901234567890112345678901234567890123133334567890123
                                                          78990123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456
                                                                                                                                                                                                                                                                                           Max value.
                                                                                                       MACRO
                                                                                                                                         These two macros are used to test for conflicting qualifiers and parameters in a given command. The test is on bits in a flag word which are set as the syntax tree is built. The macros depend on the bit position being given by literals of the form TASK_xxx.
                                                                                                                        CONFLICT (flags) [] = (0 + _conflict( flags, %REMOVE(%REMAINING) ) GTR 1) %,
                                                                                                                        _conflict (flags) [list] = ( .flags < %name('TASK_',list), 1, 0> ) %;
                                                                                                                                                                                                                                             = UPLIT BYTE (%ASCIC 'ACTIVE'),
= UPLIT BYTE (%ASCIC 'ALL'),
= UPLIT BYTE (%ASCIC 'CALLS'),
= UPLIT BYTE (%ASCIC 'DEADLOCK'),
= UPLIT BYTE (%ASCIC 'FULL'),
= UPLIT BYTE (%ASCIC 'HOLD'),
= UPLIT BYTE (%ASCIC 'NOHOLD'),
= UPLIT BYTE (%ASCIC 'PRIORITY'),
= UPLIT BYTE (%ASCIC 'RELEASE'),
= UPLIT BYTE (%ASCIC 'RESTORE'),
= UPLIT BYTE (%ASCIC 'STATE'),
= UPLIT BYTE (%ASCIC 'STATISTICS'),
= UPLIT BYTE (%ASCIC 'TERMINATE'),
= UPLIT BYTE (%ASCIC 'VISIBLE'),
                                                                                                      BIND
                                                                                                                       DBG$CS_ACTIVE
DBG$CS_ALL
DBG$CS_CALLS
DBG$CS_DEADLOCK
DBG$CS_FULL
DBG$CS_HOLD
DBG$CS_NOHOLD
DBG$CS_PRIORITY
DBG$CS_RELEASE
DBG$CS_RESTORE
DBG$CS_STATE
DBG$CS_STATE
DBG$CS_TERMINATE
DBG$CS_VISIBLE
                                                                                                                                                                                                                                                                                                                                                                                                                                      Qualifier names
                                                                                                                                                                                                                                                = UPLIT BYTE (%ASCIC 'READY')
= UPLIT BYTE (%ASCIC 'RUNNING'),
= UPLIT BYTE (%ASCIC 'SUSPENDED'),
= UPLIT BYTE (%ASCIC 'TERMINATED'),
                                                                                                                        DBG$CS_READY
DBG$CS_RUNNING
DBG$CS_SUSPENDED
DBG$CS_TERMINATED
                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE names
                                                                                                                       dbg$cs_left_paren
dbg$cs_right_paren
DBG$CS_COLON
dbg$cs_comma
dbg$cs_cr
dbg$cs_equal
dbg$cs_slash
                                                                                                                                                                                                                                               = UPLIT BYTE (1, dbg$k_left_parenthesis),

= UPLIT BYTE (1, dbg$k_right_parenthesis),

= UPLIT BYTE (%ASCIC ':'),

= UPLIT BYTE (1, dbg$k_comma),

= UPLIT BYTE (1, dbg$k_car_return),

= UPLIT BYTE (1, dbg$k_equal),

= UPLIT BYTE (1, dbg$k_slash);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Punctuation
```

```
DBGTASK
V04-000
                                                                                                                                 VAX-11 Bliss-32 V4.0-742 [DEBUG.SRC]DBGTASK.B32;1
                                                                                                                                                                                       Page
                       DBG$CONV_TASK_NUM_VALUE
                                   *SBTTL 'DBG$CONV_TASK_NUM_VALUE'
GLOBAL ROUTINE DBG$CONV_TASK_NUM_VALUE ( TASK_NUMBER, TASK_VALUE ) : NOVALUE =
    14678901234567890116667890
1467890123456789016234567890
                        FUNCTION
                                               This routine converts an ADA task number to the corresponding task value. It calls the ADA run time system to perform the actual
                                               conversion.
                                      INPUT
                                               TASK_NUMBER - Address of a longword containing the task number to be
                                                          converted.
                                      OUTPUT
                                               TASK_VALUE - Address of a longword to contain the resulting task value.
                                         BEGIN
                                   .TASK_VALUE = %x'ODECOADA';
                                                                                  %((TO BE REPLACED WITH SOME REAL CODE -tbs))%
                                         RETURN 0:
                                         END:
                                                                                   ! end of DBG$CONV_TASK_NUM_VALUE
                                                                                                             .TITLE
                                                                                                                        DBGTASK
                                                                                                             .PSECT
                                                                                                                        DBG$PLIT, NOWRT,
                                                                                                                                                  SHR, PIC,0
                                                                                        00000 P.AAA:
00007 P.AAB:
00008 P.AAC:
                                                     56
                                                                                                                         <6>\ACTIVE\
                                                                                  44454F2555445555555
                                                                            13468E0223346223489ACDD
                                                                                                                         <5>\CALLS\
                                                                 4444444544554455
                                                                                         00011 P.AAD:
                                                                                                                         <8>\DEADLOCK\
                                                                                        0001A P.AAE:
0001F P.AAF:
00024 P.AAG:
                                                                                                                         <4>\FULL\
                                                                                                                         <4>\HOLD\
                                                           445555444E0D
                                                                                                                         <6>\NOHOLD\
                                                                                        00024 P.AAH:
00034 P.AAI:
0003C P.AAJ:
00044 P.AAK:
00044 P.AAL:
00055 P.AAM:
                                                                                                                         <8>\PRIORITY\
                                                                                                                         <7>\RESTORE\
                                                                                                                         <5>\STATE\
<10>\STATISTICS\
                       53
                                                                                                                         <9>\TERMINATE\
                                                                                                                         <7>\VISIBLE\
                                                                                                 P.AAN:
                                                                                                 P.AAO:
                                                                                                                         <5>\READY\
                                                                                                 P.AAP:
                                                                                                                         <7>\RUNNING\
                                                                                                 P.AAQ:
                                                                                                                         <9>\SUSPENDED\
                                                                                                 P.AAR:
                                                                                                                         <10>\TERMINATED\
                                                                                                 P.AAS:
                                                                                                P.AAT:
P.AAU:
P.AAV:
P.AAW:
P.AAX:
                                                                                                             ASCII
BYTE
BYTE
BYTE
                                                                                                                         <1>1:1
```

```
DBGTASK
V04-000
                                                                                                                                                                                                                                                                                                                                                                                                                             16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 EDEBUG.SRCJDBGTASK.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (3)
                                                                                                       DBG$CONV_TASK_NUM_VALUE
                                                                                                                                                                                                                                                                                                                                                2F 01 00096 P.AAY: .BYTE 1, 47
                                                                                                                                                                                                                                                                                                                                                                                                                                     DBG$CS_ACTIVE = P.AAA
DBG$CS_ALL = P.AAB
DBG$CS_CALLS = P.AAC
DBG$CS_DEADLOCK = P.AAC
DBG$CS_DEADLOCK = P.AAC
DBG$CS_FULL = P.AAC
DBG$CS_HOLD = P.AAC
DBG$CS_NOHOLD = P.AAC
DBG$CS_PRIORITY = P.AAC
DBG$CS_RELEASE = P.AAI
DBG$CS_RESTOR = P.AAC
DBG$CS_STATISTICS = P.AAC
DBG$CS_TERMINATE = P.AAC
DBG$CS_COMMA = P.ACC
DBG$CS_COMMA = P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            P.AAY

DBG$GET_TEMPMEM

DBG$NMATCH, DBG$NPARSE_EXPRESSION

DBG$NSAVE_DECIMAL_INTEGER

DBG$SYNTAX_ERROR

DBG$TRACEBACK, DBG$GB_LANGUAGE

DBG$GB_RADIX, DBG$RUNFRAME

ADA$DBGEXT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .EXTRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .EXTRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .EXTRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .EXTRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .EXTRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .EXTRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               . WEAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .PSECT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DBG$CODE, NOWRT, SHR, PIC, O
                                                                                                                                                                                                                                                                                                                                                                 00000 00000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : 1348
: 1367
: 1372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DBG$CONV_TASK_NUM_VALUE, Save nothing #233573082, aTASK_VALUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .ENTRY
                                                                                                                                                                                                                                                            BC ODECOADA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOVL
                                                                                                                                                                                                                                                                                                                                                                                 04 0000A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RET
  ; Routine Size: 11 bytes.
                                                                                                                                                                                                 Routine Base: DBG$CODE + 0000
```

DBGTASK VO4-000	DBG\$CONV_TASK_VALUE_NUM	L 5 16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32:1
172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196	1373 %SBTTL 'DBG\$CONV_TASK_VALUE_NUM 1374 GLOBAL ROUTINE DBG\$CONV_TASK_VA 1375 FUNCTION 1377 This routine converts a number. It calls the A conversion. 1380 INPUT 1382 TASK_VALUE - Address of converted. 1383 OUTPUT 1386 OUTPUT 1386 TASK_NUMBER - Address of number. 1389 INPUT 1389 INPUT 1389 INPUT 1389 INPUT 1389 INPUT 1380 INPUT 1381 OUTPUT 1382 OUTPUT 1383 INPUT 1384 INPUT 1386 INPUT 1386 INPUT 1387 OUTPUT 1388 INPUT 1388 INPUT 1389 INPUT 1390 INPUT 1391 OUTPUT 1392 OUTPUT 1393 INPUT 1394 OUTPUT 1395 OUTPUT 1396 OUTPUT 1397 OUTPUT 1397 OUTPUT 1398 INPUT 1399 OUTPUT 1399 OUTP	TALUE_NUM (TASK_VALUE, TASK_NUMBER) : NOVALUE = In ADA task value to the corresponding task IDA run time system to perform the actual if a longword containing the task value to be if a longword to contain the resulting task IE REPLACED WITH SOME REAL CODE -tbs))%
: 197	1398 1 END;	! end of DBG\$CONV_TASK_VALUE_NUM

2A DO 00000 04 00006 .ENTRY MOVL RET

DBG\$CONV_TASK_VALUE_NUM, Save nothing #42, aTASK_NUMBER

Page 6 (4)

; Routine Size: 7 bytes, Routine Base: DBG\$CODE + 000B

```
DBGTASK
V04-000
                                                                                           16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
                                                                                                                             VAX-11 Bliss-32 V4.0-742
EDEBUG.SRCJDBGTASK.B32;1
                                                                                                                                                                                Page
                       DBG$NEXECUTE_SET_TASK
                                                                                                                                                                                        (5)
                                  %SBTTL 'DBG$NEXECUTE_SET_TASK'
GLOBAL ROUTINE DBG$NEXECUTE_SET_TASK ( VERB_NODE : REF DBG$VERB_NODE ) :
    NOVALUE =
                                     FUNCTION
                                              This routine executes the SET TASK command. It accepts the address
                                              of a Verb Node as input and executes the corresponding command.
                                     INPUTS
                                             VERB_NODE - A pointer to the Verb Node for the SET TASK command to be executed. The Verb Node and its attached Adverb and Noun Nodes contain all information picked up during the parsing of the command.
                                     OUTPUTS
                                              NONE
                                        BEGIN
                                        LOCAL
                                              XXXXXXX:
                                                                                           !<<----- Local declarations -----
                                              Check for conflicting qualifiers and parameters. %((REQUIRED? -tbs))%
                                         IF CONFLICT (QUALIFIERS, (ALL, TASK_LIST) )
   OR CONFLICT (QUALIFIERS, (ALL, ACTIVE) )
   OR CONFLICT (QUALIFIERS, (ALL, VISIBLE) )
                                                                                                                  %((NEED OTHER CONFLICTS? -tbs))%
                                         THEN
                                              SIGNAL (DBG$_CONFLICT);
                                        RETURN 0:
                                        END:
                                                                                ! end of DBG$NEXECUTE_SET_TASK
                                                                                                         .ENTRY DBG$NEXECUTE_SET_TASK, Save nothing RET
                                                                               00000 00000
                                                                                                                                                                                   : 1400
                                                                                 04 00002
```

Routine Base: DBG\$CODE + 0012

: Routine Size: 3 bytes.

P"A"T = "(P+A+T)

==> 5

Page

(6)

```
DBGTASK
V04-000
                                                                                          16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
                                                                                                                            VAX-11 Bliss-32 V4.0-742
LDEBUG.SRCJDBGTASK.B32:1
                                                                                                                                                                               Page
                      DBG$NEXECUTE_SHOW_TASK
                                                              1666
1667
                                                   THEN
                                                                                                                            ! %(( NEED TO LIB DBGGEN -tbs))%
                                                  ELSE
                                                                   exc_type = trap_exc;
                      END
                                            ELSE
                                                                                                                                       ! ADA has the register set
                                                  DBG$TRACEBACK (.DBGEXT$$CONTROL_BLOCK [DBGEXT$L_PC], .DBGEXT$$CONTROL_BLOCK [DBGEXT$L_FP],
                                                                        trap_EXC, call_level );
                                                                                                                                       ! %((FAULT or TRAP? -tbs))%
                                            END % :
                                       LOCAL
                                             ADA_CONTROL : REF DBGEXT$CONTROL_BLOCK,
ADVERB_NODE : REF DBG$ADVERB_NODE,
                                             NOUN_NODE : REF DBG$NOUN_NODE,
                                            LINK,

CALLS VALUE : INITIAL (0),

PRIORITY VALUE : INITIAL (0),

STATE VACUE : INITIAL (0),

QUALIFIERS : BITVECTOR [TASK MAX QUAL + 1]
                                                                                                                 ! Link field to next adverb or noun node.
                                                                                                                 ! Qualifier state vector.
                                                               INITIAL (BYTE (REP TASK_MAX_QUAL / %BPUNIT + 1 OF (0)));
                                            Walk the tree and set bits in the qualifier state vector. Also pick up the values of the adverb nodes representing the parameters supplied to the /CALLS, /PRIORITY, and /STATE qualifiers. This
                                            algorithm will cause the last value to superceed earlier values, when multiple values are given.
   .VERB_NODE [DBG$L_VERB_OBJECT_PTR] NEQ 0
                                                                                                                ! Check for an explicit task list.
                      1698
                                       THEN
                                       QUALIFIERS [TASK_TASK_LIST] = TRUE;
LINK = VERB_NODE [DBG$L_VERB_ADVERB_PTR];
WHILE ..LINK NEQ 0 DO
BEGIN
                      1699
1700
1701
1702
1703
1704
1705
1706
1707
1710
1711
1712
1713
1714
1715
1716
1717
                                                                                                                   Get link to the adverb nodes.
                                                                                                                   Chain down the adverb nodes.
                                            ADVERB_NODE = ..LINK;
QUALIFIERS [ .ADVERB_NODE [DBG$B_ADVERB_LITERAL] ] = TRUE;
SELECTONE .ADVERB_NODE [DBG$B_ADVERB_LITERAL] OF
                                                  SET
[ TASK CALLS ] :
    CALLS VALUE = .ADVERB_NODE [DBG$L_ADVERB_VALUE];
[ TASK_PRIORITY ] :
                                                  PRIORITY_VALUE = .ADVERB_NODE [DBG$L_ADVERB_VALUE];

[ TASK_STATE ] :
    STATE_VALUE = .ADVERB_NODE [DBG$L_ADVERB_VALUE];
                                            LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
                                                                                                                ! Link to next node.
                                            Check for conflicting qualifiers and parameters. %((what about /FULL ? -tbs))%
   520
521
                                           CONFLICT (QUALIFIERS, (CALLS, DEADLOCK, STATISTICS) ) ! Only one action allowed.
```

```
DBGTASK
VO4-000
                                                                                           16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
                                                                                                                             VAX-11 Bliss-32 V4.0-742
[DEBUG.SRC]DBGTASK.B32:1
                      DBG$NEXECUTE_SHOW_TASK
                       1721
1723
1723
1724
1725
1726
1727
1728
1729
1731
1732
1733
                                             SIGNAL (DBG$_CONFLICT);
                                             Get a control block.
                                            .QUALIFIERS [TASK_CALLS]
                                             ADA_CONTROL = DBG$GET_TEMPMEM (DBGEXT$K_ADA_SIZE2)
                                                                                                                             ! Need long block.
                                             ADA_CONTROL = DBG$GET_TEMPMEM (DBGEXT$K_ADA_SIZE1);
                                                                                                                             ! Need short block.
                                             Fill out the control block and perform the required action.
                                        SELECTONE TRUE OF
                                             SET
    SHOW TASK /DEADLOCK
                                                .QUALIFIERS [TASK_DEADLOCK] ] :
                                                   DBGEXT INIT (DBGEXT = .ADA CONTROL,
FUNCTION = DBGEXT$K_SHOW DEADLOCK);
IF NOT ADASDBGEXT (.ADA_CONTROL)
                                                                                                                              ! Initialize block
                                                                                                                                 and set function.
                                                   SIGNAL (%((INTERNAL ERROR -tbs))%);
IF NOT .DBGEXT$$CONTROL_BLOCK [DBGEXT$L_STATUS]
                                                                                                                             ! and check status.
                                                         SIGNAL (%((SOME ERROR -tbs))%);
                                                   END:
                                                   SHOW TASK /STATISTICS
                                                 .QUALIFIERS [TASK_STATISTICS] ] :
                                                  DBGEXT_INIT (DBGEXT = .ADA_CONTROL,

FUNCTION = DBGEXT$K_SHOW_STATISTICS);

FUNCTION = DBGEXT$K_SHOW_STAT);

IF NOT ADA$DBGEXT (.ADA_CONTROL)
                                                                                                                             ! Initialize block
                       1760
                                  !%((-tbs))%
                                                                                                                                           and set function.
                                                                                                        ! and set function.
                                                                                                                             ! Call ADA
                        764
765
766
767
768
                                                    SIGNAL (%((INTERNAL ERROR -tbs))%);
IF NOT .DBGEXT$$CONTROL_BLOCK [DBGEXT$L_STATUS] ! and check status.
                                                         SIGNAL (%((SOME ERROR -tbs))%);
                        769
770
771
    572
573
574
575
576
577
578
                                                   SHOW TASK OF SHOW TASK /CALLS
                                             COTHERWISE ] :
                                                         ALL = .QUALIFIERS [TASK_ALL],
LIST = .QUALIFIERS [TASK_TASK_LIST],
```

```
DBGTASK
VO4-000
                                                                                                             VAX-11 Bliss-32 V4.0-742 [DEBUG.SRC]DBGTASK.B32;1
                   DBG$NEXECUTE_SHOW_TASK
                                                 PSH = .QUALIFIERS [TASK_PRIORITY] OR .QUALIFIERS [TASK_STATE] OR .QUALIFIERS [TASK_HOLD];
   SELECTONE TRUE OF
                                                 SET
                                                 (P + PA) T ==> NS...

(PSH OR (NOT PSH AND ALL)) AND NOT LIST ]:
                                                      (P + "PA)"T
                                                      BEGIN
                                                      LOCAL
                                                      FIRST TASK;

DBGEXT_INIT (DBGEXT = .ADA CONTROL,
PRIORITY = .PRIORITY_VALUE,
STATE = .STATE_VALUE,
HOLD = .QUALIFIERS [TASK_HOLD] );

FIRST TASK = DO_NEXT_TASK (0);
IF FIRST_TASK EQLU 0 ! null task
                                                                                                   ! null task ==> EXIT
                                                      THEN
                                                           SIGNAL (%((NO TASKS MATCH RESTRICTION -tbs))%);
                                                           BEGIN
                                                           DO_SHOW_TASK ():
IF .QUALIFIERS [TASK_CALLS]
                                                                                                   %((HEADER CONTROL NEEDED -tbs))%
                                                                DO_SHOW_CALLS (.CALLS_VALUE);
                                                      UNTIL .FIRST_TASK EQLU DO_NEXT_TASK (); ! cycled through all tasks
                                                      END:
                                                                               ==> GS...
                                                 [ PSH AND LIST ] :
                                                      BEGIN
                                                      DBGEXT_INIT (DBGEXT = .ADA_CONTROL);
                                                           Walk down the chain of noun nodes. Pick up the pointer to %((THE PRIMARY DESC -tbs)
                                                           and the value of the task. Then do the SHOW_TASK.
                                                      LINK = VERB_NODE [DBG$L_VERB_OBJECT_PTR];
                                                                                                                       ! Get link to the noun nodes.
                                                                                                                        ! Chain down the noun nodes.
                                                           BEGIN
                                                           LABEL
                                                           CHECK_PSH;
                                                           <task_value> = (.NOUN_NODE [DBG$L_NOUN_VALUE]) [<task_value_field>]; %((need stru
                                                                Check PRIORITY, STATE, and HOLD
                                                           CHECK PSH:
                                                                SELECT TRUE OF
                                                                     SET
                                                                      [ .QUALIFIERS [TASK_PRIORITY] ] :
                                                                          BEGIN

CALL_ADA (FUNCTION = DBGEXT$K_GET_PRIORITY);

IF .ADA_CONTROL [DBGEXT$L_PRIORITY] AND .PRIORITY_VALUE EQL 0
```

```
DBGTASK
V04-000
                                                                             16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
                                                                                                          VAX-11 Bliss-32 V4.0-742
LDEBUG.SRCJDBGTASK.B32;1
                   DBG$NEXECUTE_SHOW_TASK
                                                                                                                                                            (6)
   LEAVE CHECK_PSH;
                                                                        END:
                                                                   [ .QUALIFIERS [TASK_STATE] ] :
                                                                        BEGIN

CALL ADA (FUNCTION = DBGEXT$K GET STATE);

IF .ADA_CONTROL [DBGEXT$V_STATE] AND .STATE_VALUE EQL 0
                                                                             LEAVE CHECK_PSH;
                                                                   [ .QUALIFIERS [TASK_HOLD] ] :
                                                                        BEGIN
                                                                        CALL_ADA (FUNCTION = DBGEXT$K_GET_STATE);
IF NOT .ADA_CONTROL [DBGEXT$V_HOLD]
                                                                             LEAVE CHECK_PSH;
                                                                        END:
                                                                   TES:
                                                              DO_SHOW_TASK ();
IF .QUALIFIERS [TASK_CALLS]
THEN
                                                                                                 ! <task_value> %((-tbs))%
                                                                   DO_SHOW_CALLS (.CALLS_VALUE);
                                                          LINK = NOUN_NODE [DBG$L_NOUN_LINK];
                                                                                                                   ! Link to next node.
                                                          END:
                                                     END:
                                                                             ==> S..
                                                [ NOT PSH AND LIST ] :
                                                     BEGIN
                                                     DBGEXT_INIT (DBGEXT = .ADA_CONTROL);
                                                          Walk down the chain of noun nodes. Pick up the pointer to %((THE PRIMARY DESC -tbs)
                                                          and the value of the task. Then do the SHOW_TASK.
                                                     LINK = VERB_NODE [DBG$L_VERB_OBJECT_PTR];
                                                                                                                      Get link to the noun nodes.
                                                                                                                    ! Chain down the noun nodes.
                                                          BEGIN
                                                          NOUN_NODE = ..LINK;
                                                          <task_value> = (.NOUN_NODE [DBG$L_NOUN_VALUE]) [<task_value_field>]; %((need stru
                                                          DO_SHOW_TASK ();
IF .QUACIFIERS [TASK_CALLS]
                                                                                                ! <task_value> %((-tbs))%
                                                          DO_SHOW_CALLS (.CALLS_VALUE);
LINK = NOUN_NODE [DBG$L_NOUN_LINK];
                                                                                                                   ! Link to next node.
                                                          END:
                                                     END:
                                                     "P"A"T = "(P+A+T) ==> S
                                                [ NOT (PSH AND ALL AND LIST) ] :
                                                     BEGIN
```

DBGTASK V04-000		DBG\$NEXECUTE_SHOW_T						984 02:43 984 12:17		e 16
693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709		1892 4 1893 4 1894 4 1895 4 1896 4 1897 3 1898 3 1899 3 1900 3 1901 2 1902 2 1903 2 TES 1904 2 1905 2 1906 2 RETURN 1907 2 1908 1 END;	TES END;	MEN	HOW_	(DBGEXT = (); RS ETASK_C CALLS (.CA	LLS_VA	LUE);		
					0	FFC 00000		.ENTRY	DBG\$NEXECUTE_SHOW_TASK, Save R2,R3,R4,R5,- R6,R7,R8,R9,R10,RT1 #4, SP PRIORITY_VALUE	1437
			5E		7E 5A	C2 00002 D4 00005 7C 00007		SUBL2 CLRL CLRQ CLRW	PRÍORITY_VALUE CALLS_VACUE	1496
			58	04 08	AC AB	B4 00009 D0 0000B D5 0000F		MOVL	CALLS VACUE QUALIFIERS VERB_NODE, R8 8(R8)	1697
			59 56	04	7559 C83186F60106014	13 00012 88 00014 9E 00017 D5 0001B	1\$: 2\$:	MOVL TSTL BEQL BISB2 MOVAB TSTL	8(R8) 1\$ #1, QUALIFIERS 4(R8), LINK (LINK) 7\$	1699 1700 1701
			50 51 59 03		66	9E 00017 00018 13 00010 9A 00025 91 00029 12 00032 91 00032 91 00037 12 00037 12 00037 12 00037 12 00044 9E 00048 11 00048 11 00048 11 00063 EF 00068 EF 00063		TSTL BEQL MOVZBL BBSS CMPB BNEQ MOVL BRB CMPB BNEQ MOVL BRB CMPB BNEQ MOVAB BRB CMPB BNEQ MOVAB CMPB BNEQ MOVAB CMPB CMPB CMPB CMPB CMPB CMPB CMPB CMP	(LINK), ADVERB_NODE (ADVERB_NODE), R1 R1, QUACIFIERS, 3\$ (ADVERB_NODE), #3	1703 1704
		00	03		60	91 00029 12 00020	3\$:	CMPB RNFO	(ADVERB_NODE), #3	1707
			5A	04	A0	00 0002E 11 00032		MOVL BRB	4(ADVERB_NODE), CALLS_VALUE	1708
			07 6E	04	06 A0	12 00037 00 00039	45:	BNEQ MOVI	(ADVERB_NODE), #7 5\$ 4(ADVERB_NODE), PRIORITY_VALUE	1709
			0A		60	11 0003D 91 0003F	58:	BRB	6\$ (ADVERB_NODE), #10	1711
			58 56	04 08	6060900400050550 60609004100550550	12 00042 00 00044 9E 00048	68:	MOVL MOVAR	4(ADVERB_NODE), STATE_VALUE	1712
	50 51	59 59	01	00	03	11 0004C EF 0004E	78:	BRB	76	1712 1714 1701 1720
	51	59 59	50		51 08	EF 00058 EF 00058		ADDL2	R1, R0	
	,,		50		52	CO 00060 D1 00063		ADDL2 CMPL	#3. #1. QUALIFIERS. RO #4. #1. QUALIFIERS, R1 R1. RO #11. #1. QUALIFIERS. R2 R2. RO R0. #1	

BGTASK 04-000		DBG\$NEXECUTE_S	HOW_TASK			1	6-Sep-	1984 02:43: 1984 12:17:	52	VAX-11 Bliss-32 V4.0-742 CDEBUG.SRCJDBGTASK.B32:1	Page 1
		04 00	000000G 00	00028158	0D 8F 01 03 1B 02	15 00066 DD 00068 FB 0006E E1 00075 DD 00079	8\$:	CALLE	8\$ #164 #1. #3.	184 LIB\$SIGNAL QUALIFIERS, 9\$	172 172
	28	00 27 00	0000000G 00 57 59 6E		0A 01 50 04	DD 0007D FB 0007F D0 00086 E1 00089	9\$: 10\$:	BBC PUSHL BRB PUSHL CALLS MOVL BBC MOVC5	#10 #1. RO.	DBG\$GET_TEMPMEM ADA_CONTROL QUALIFIERS, 11\$ (SP), #0, #40, (ADA_CONTROL)	173 174 174
02	A7	oc	20 A7 18 A7		67 31 CF 06 07	FO 00093 9E 00099 BO 0009F BA 000A2		INSV	#49, DBGE #6,	#0, #12, 2(ADA_CONTROL) XT\$PRINT_ROUTINE, 32(ADA_CONTROL) (ADA_CONTROL) 24(ADA_CONTROL) CONTROL ADA\$DBGEXT	
			0000000G 00 2B		57 01 50 30 08	DD 000A6 FB 000A8 E9 000AF 11 000B2	116.	BRB	13\$		174
	28	39	59 6E		00 67	2C 000B8 000BD	115:	MUVCS		QUALIFIERS, 15\$ (SP), #0, #40, (ADA_CONTROL)	177 177 176
02	Α7	00	20 A7 67 18 A7		31 CF 05 07 57	FO 000BE 9E 000C4 BO 000CA 8A 000CD DD 000D1 FB 000D3		INSV MOVAB MOVW BICB2 PUSHL CALLS BLBS CALLS BLBC	MUM	CONTROL	176
			0000000G 00 0000000G 00 01		50 00 A7	FB 000DA FB 000DD F9 000F4	12\$: 13\$:	BLBS CALLS BLBC RET	#1. RO. #0. 4(AD	ADA\$DBGEXT 13\$ LIB\$SIGNAL A_CONTROL), 14\$	176
			000000G 00		00	04 000E8 FB 000E9 04 000F0 EF 000F1	145:	CALLS		LIB\$SIGNAL	176 177 177
	50	59 59	01 01		07 0A	EF 000F1	15\$:	EXTZV	#10.	#1, QUALIFIERS, RO #1, QUALIFIERS, R1	177
	52	59	01 50		06	EF 000FE		EXTZV	#6. R2	#1, QUALIFIERS, R2	
	51	59	01 51		50	EF 00106 CA 0010B		BICL2	#2. RO.	#1, QUALIFIERS, R1	178
	52	59	51 01 51		500	C8 0010E EF 00111 CA 00116 D1 00119		BISL2 EXTZV BICL2 CMPL BEQL BRW MOVC5	RO. #0. R2. R1.	#1, QUALIFIERS, RO #1, QUALIFIERS, R1 R0 #1, QUALIFIERS, R2 R0 #1, QUALIFIERS, R1 R1 R1 #1, QUALIFIERS, R2 R1	
	28	00	6E	0	12F 00	31 0011E 20 00121	16\$:	BRW MOVC5	33\$	(SP), #0, #40, (ADA_CONTROL)	179
02	A7	ОС	20 A7		67 31 CF A7	FO 00127 9E 0012D 9E 00133				#0, #12, 2(ADA_CONTROL) XTSPRINT_ROUTINE, 32(ADA_CONTROL) DA_CONTROL), RO (RO) RITY_VALUE, 28(ADA_CONTROL) (RO) E_VALUE, #0, #4, 2(RO)	
02	AO	04	1C A7		6E 02 5B	00 0013A 88 0013E F0 00141		MOVL BISB2 INSV	PRÍO #2 STÁT	RITY_VALUE, 28(ADA_CONTROL) (RO) E_VALUE, #0, #4, 2(RO)	

DBGTASK V04-000		DBG\$NEXEC	UTE_SHOW_TASK					16 14	6 -Sep-1 -Sep-1	984 02:43 984 12:17	:49	VAX-11 Bliss-32 V4.0-742 [DEBUG.SRC]DBGTASK.B32;1	Pag	e 18
	51		59	60 01 14 67 52	04 10	01 06 51 03 A7 627 57	88 EFO BO BO D4	00147 0014A 0014F 00154 00157 0015B		BISB2 EXTZV INSV MOVW MOVAB CLRL	#1. #6. R1. #3. 4(AD (R2)	(RO) #1, QUALIFIERS, R1 #20, #1, (RO) (ADA_CONTROL) (A_CONTROL), R2		1793
			00000000G 00000000G 00000000G	00 07 00 07 00 AE 50	10 04	01	FB90440B88B8B0E2	00160 00162 00169 0016C 00173 00176	17\$: 18\$:	PUSHL CALLS BLBS CALLS BLBS CALLS MOVL	ADA_ #1. R0. #0. (R2) #0.	(RO) #1, QUALIFIERS, R1 #20, #1, (RO) (ADA CONTROL) (A_CONTROL), R2 ADA CONTROL ADASDBGEXT 17\$ LIB\$SIGNAL . 18\$ LIB\$SIGNAL		1704
			0000000G	00	04	07	12 FB	00186	19\$:	BNEQ	44	TABA CONTROLL		1794 1796 1799
			000000006 000000006 000000006 000000006 000000	007007007 007007 0070002 008 008 008 008	0000000G	5060AA000650506000650506600630000	FBDDFEEFEBDDFEEFED15B1208101	00192 00194 00196 0019D 001A7 001AA 001B1 001B5 001BA 001BC 001CD 001CD 001DC 001DC 001DF 001E1 001E9	20\$: 21\$: 22\$:	BISB2 ENSTAN MOVAB CLRHS BLALLS B	(AD10020-52A22S-58-68-68-68-68-68-68-68-68-68-68-68-68-68	CONTROL ADASDBGEXT 20\$ LIB\$SIGNAL LIB\$SIGNAL QUALIFIERS, 29\$ (ADA_CONTROL) CONTROL ADASDBGEXT 22\$ LIB\$SIGNAL . 23\$. #2 LIB\$SIGNAL . #2 LIB		1800 1802
				50	0401 000000006 000000006	03 01 86 00 0A 5A	11 00 88 00 00	001FB 001FD 00200 00204 0020A 00210	24\$: 25\$: 26\$: 27\$:	BBC MOVL BRB MOVL PUSHR PUSHL PUSHL BRB PUSHL	26\$ #1 # M< DBG\$ DBG\$ CALL	EXC_TYPE CRO,R10> GRUNFRAME+56 GRUNFRAME+64		
			0000000G	00 67	5C 64	5A 01 A7 04 06 57	00 80 00 11 00 00 00 00 00 00 00 00 00 00 00	00214 00216 00219 00210 00223 00226 00228 00228	285: 295:	PUSHL PUSHL PUSHL PUSHL CALLS MOVW CLRL PUSHL CALLS	100 (#4. #3. (R2)	ADA_CONTROL) DBG\$TRACEBACK (ADA_CONTROL)		1804
			00000006	00		ói	FB	0022A		CALLS	#1,-	CONTROL	•	

DBGTASK VO4-000		DBG\$NEXECUTE	SHOW_TASK				16-Sep- 14-Sep-	1984 02:43 1984 12:17	:49	VAX-11 Bliss-32 V4.0-742 EDEBUG.SRCJDBGTASK.B32;1	Page (
			00000000G 00000000G 10	07 00 07 00 A7	04 04 04 03 FF40	E8 FB D13	00231 00234 0023B 30\$: 0023E 00245 31\$:	BLBS CALLS BLBS CALLS CMPL BEQL BRW RET EXTZV MCOML BICL3 CMPL BEQL BRW MOVC5	RO, 3 #0 (R2) #0 FIRST 32\$	BOS IBSSIGNAL , 315 IBSSIGNAL I_TASK, 16(ADA_CONTROL)	
5	51	59 51		01 51 50 01	00 51 51 51 03 0156	04 EF D2 CB D1 13	0024F 32\$: 00250 33\$: 00255 00258 0025C 0025F	RET EXTZV MCOML BICL3 CMPL BEQL	#0. A	P1, QUALIFIERS, R1 R0, R1	178
2	28	00		6E	00	ŞĊ	00264 348:		#0.	(SP), #0, #40, (ADA_CONTROL)	181
02 A	17	OC	20	00 A7 53 63 56	0000V CF 18 A7 07 08 A8 66 01	F0 9E 9E 9E 9E 12	0026A 00270 00276 0027A 0027D 00281 35\$:	INSV MOVAB MOVAB BICB2 MOVAB TSTL BNEQ RET	#49 DBGÉ) 24 (AI #7 8 (Ŕ8) (LINE 36\$	#0, #12, 2(ADA_CONTROL) (T\$PRINT_ROUTINE, 32(ADA_CONTROL) (A_CONTROL), R3 (R3) (), LINK ()	18
				52	66	04	00285 00286 00289	MOVL	(LIN	() , NOUN_NODE	18
				67 63	66 59 20 00 07 57	18 80 8A	00288 0028b 00290 00293	BGEQ MOVW BICB2 PUSHL	#12.	(), NOUN_NODE IFIERS (ADA_CONTROL) (R3) CONTROL	18
			00000000G 00000000G	00 07 00 07 00 04	01 50 00 04 A7 00 10 A7 65 50 0A 07 07	F88 F88 F953	00295 00296 00296 00296 002AA 002B1 002B5 002B7 002B7 002B9 002C0 002C5 002CC	MOVE TSTB BGEQ MOVW2 PUSHS BLALS BLAS BLA	#1, # RO. 3 #0, L 4(AD# #0, L 28(ADPRIOR	(R3) CONTROL ADASDBGEXT 57\$ LIB\$SIGNAL A_CONTROL), 38\$ LIB\$SIGNAL DA_CONTROL), 39\$ RITY_VALUE QUALIFIERS, 42\$ (ADA_CONTROL) (R3) CONTROL ADASDBGEXT LIB\$SIGNAL A_CONTROL), 41\$ LIB\$SIGNAL DA_CONTROL), 42\$ E_VALUE QUALIFIERS, 46\$	183
		50		59 67 63	5D 0A 07 07 57	13 E1 B0 8A DD FB	00287 00289 39\$: 0028D 002C0 002C3	BEQL BBC MOVW BICB2 PUSHL	45\$ #10. #7.	QUALIFIERS, 42\$ (ADA_CONTROL) (R3)	183
			00000000G	00 07 00 07	01 50 00 04 A7 00 1A A7 5B 2D	F88 F8	002C5 002CC 002CF 002D6 40\$:	CALLS BLBS CALLS BLBS	#1. RO. 4 #0. L	ADASDBGEXT ADASTIGNAL ACONTROL), 418	
			0000000G	00	1A A7 5B	E8 E9 D5	002DA 002E1 41\$: 002E5	BLBC TSTL	26 CAD STATE	IBSSIGNAL DA CONTROL), 42\$ E_VALUE	184
		50		59 67 63	2D 06 07 07 57	13 E1 B0 8A DD FB	002E7 002E9 42\$: 002ED 002F0 002F3	BEQL BBC MOVW BICB2	458 #6. 0	QUALIFIERS, 46\$ (ADA_CONTROL) (R3) CONTROL ADA\$DBGEXT	184 184
			00000000G	00 07 00	01 50 00	FB	002FC	CALLS	RO. 4	ADA\$DBGEXT	

DBGTASK V04-000	DBG\$NEXECUTE_SHOW_TASK		M 6 16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32;1	20
	00000000G 07	04 A7 00 04	E8 00306 438: BLBS 4(ADA_CONTROL), 44\$ FB 0030A CALLS #0, LIB\$SIGNAL E0 00311 448: BBS #4, 26(ADA_CONTROL), 46\$ 31 00316 45\$: BRW 56\$	1850
	67	009A 04 04 A7 57	RO DOZIO LAS. MOVU #4 (ADA CONTROL)	1857
	00000000 00 07 00000000 00	01	FB 00321 CALLS #1, ADA\$DBGEXT E8 00328 BLBS R0, 47\$	
	72 000000006 00 59 67		PO 00341 MOVE #15 (ADA CONTROL)	1858 1860
	00000000G 00 07 00000000G 00	57 01 50 00 04	D4 00344	
	00000000G 00	04 A7 04 A7 07 00 04 A7	E8 0035A 49\$: BLBS 4(ADA_CONTROL), 50\$ D1 0035E CMPL 4(ADA_CONTROL), #2 13 00362 BEQL 50\$ FB 00364 CALLS #0, LIB\$SIGNAL D1 0036B 50\$: CMPL 4(ADA_CONTROL), #2 12 0036F BNEQ 54\$	
	OF 000000006 00	000000000 00 00 00	12 0036F BNEQ 54\$ E0 00371 BBS #5, DBG\$RUNFRAME+73, 51\$ E8 00379 BLBS DBG\$RUNFRAME+72, 51\$ E1 00380 BBC #4, DBG\$RUNFRAME+73, 52\$ D0 00388 51\$: MOVL #2, EXC_TYPE	
	50	0401 8F 00000000G 00 00000000G 00	11 0038B BRB 53\$ D0 0038D 52\$: MOVL #1, EXC TYPE BB 00390 53\$: PUSHR #^M <r0,r10> DD 00394 PUSHL DBG\$RUNFRAME+56 DD 0039A PUSHL DBG\$RUNFRAME+64</r0,r10>	
		0A 5A 01 5C A7 64 A7 04 08 A2 FEC7 00 50	DD 003A2 548: PUSHL CALLS_VALUE	
	00000000G 00	08 A2 FEC7	FB 003AC 55\$: CALLS #4, DBG\$TRACEBACK 9E 003B3 56\$: MOVAB 8(R2), LINK 31 003B7 BRW 35\$ EF 003BA 57\$: EXTZY #0, #1, QUALIFIERS, R1 CA 003BF BICL2 R0, R1 D1 003C2 CMPL R1, #1	1863 1816 1868
51	59 01 51 01	50 51 03 00C3 00	DD 003A6 PUSHL 92(ADA_CONTROL) DD 003A9 PUSHL 100(ADA_CONTROL) FB 003AC 55\$: CALLS #4, DBG\$TRACEBACK 9E 003B3 56\$: MOVAB 8(R2), LINK 31 003B7 BRW 35\$ EF 003BA 57\$: EXTZV #0, #1, QUALIFIERS, R1 CA 003BF BICL2 R0, R1 D1 003C2 CMPL R1, #1 13 003C5 BEQL 58\$ 31 003C7 BRW 71\$	1000
28	00 68	000	20 003CA 588: MOVC5 WO, (SP), WO, W40, (ADA_CONTROL)	1870
02 A7	0C 20 A7 18 A7 56	31	FO 003DO	1975
	,	0000V CF 07 08 A8 66 01	05 003E4 59\$: TSTL (LINK) 12 003E6 BNEQ 60\$	1875 1876
	52	66	04 003E8 D0 003E9 60\$: MOVL (LINK), NOUN_NODE	1878

DBGTASK V04-000	DBG\$NEXECUTE_SHOW_TASK	N 6 16-Sep-1984 02:43:49 14-Sep-1984 12:17:52	VAX-11 Bliss-32 V4.0-742 Page 21 [DEBUG.SRCJDBGTASK.B32;1 (6)
	67 0	4 A7 D4 003EC MOVW #4, 57 DD 003F2 PUSHL ADA 01 FB 003F4 CALLS #1, 50 E8 003FB BLBS R0, 00 FB 003FE CALLS #0, 4 A7 E8 00405 61\$: BLBS 4(A 00 FB 00409 CALLS #0, 03 E1 00410 62\$: BBC #3,	(ADA CONTROL) ADA CONTROL CONTROL ADASDBGEXT COST CONTROL LIB\$SIGNAL
	0000000G 00 07	01 FB 003F4 CALLS #1, 50 EB 003FB BLBS R0, 00 FB 003FE CALLS #0,	ADASDBGEXT
	00000000G 00 07 0	50 E8 003FB BLBS R0, 00 FB 003FE CALLS #0, 4 A7 E8 00405 61\$: BLBS 4(A 00 FB 00409 CALLS #0, 03 E1 00410 62\$: BBC #3, 0F B0 00414 MOVW #15 4 A7 D4 00417 CLRL 4(A 57 DD 0041A PUSHL ADA	IDA_CONTROL/, 023
	72 00000000G 00 59 67	00 FB 00409 CALLS #0, 03 E1 00410 62\$: BBC #3,	QUALIFIERS, 708 : 1882 (ADA_CONTROL) : 1884
	0′ 0	0F B0 00414 MOVW #15 4 A7 D4 00417 CLRL 4(A 57 DD 0041A PUSHL ADA	ADA CONTROL)
	0000000G 00 07	01 FB 0041C CALLS #1,	(ADA_CONTROL) ADA_CONTROL ADA\$DBGEXT 63\$
	00000000 00	01 FB 0041C CALLS #1, 50 E8 00423 BLBS R0, 00 FB 00426 CALLS #0, 4 A7 E8 0042D 63\$: BLBS 4(A 4 A7 D1 00431 CMPL 4(A	LIB\$SIGNAL DA_CONTROL), 64\$
	0D 00 02 0	50 E8 00423 BLBS RO. 00 FB 00426 CALLS #0. 4 A7 E8 0042D 63\$: BLBS 4(A 4 A7 D1 00431 CMPL 4(A 07 13 00435 BEQL 64\$	DA_CONTROL), #2
	00000000G 00 02 0	07 13 00435 BEQL 648 00 FB 00437 CALLS #0, 4 A7 D1 0043E 648: CMPL 4(A 31 12 00442 BNEQ 688	LIB\$SIGNAL DA_CONTROL), #2
		31 12 00442 BNEQ 68\$ 05 E0 00444 BBS #5,	[2012] - 12 12 12 12 2 2 2 2 2 2 2 2 2 2 2 2 2
	08 0000000	05 E0 00444 BBS #5, 06 00 E8 0044C BLBS DBG 04 E1 00453 BBC #4,	DBG\$RUNFRAME+73, 65\$ \$RUNFRAME+72, 65\$ DBG\$RUNFRAME+73, 66\$ EXC_TYPE
	50	U3 11 UU43E BKB D/3	Jan
	50 040	01 DO 00460 66\$: MOVI #1.	ACRO,RIO>
	040 0000000 0000000	1 8F BB 00463 67\$: PUSHR #^M OG 00 DD 00467 PUSHL DBG OG 00 DD 0046D PUSHL DBG OA 11 00473 BRB 69\$	SRUNFRAME+56 SRUNFRAME+64
		5A DD 00475 68\$: PUSHL CAL	LS_VALUE
	5	01 DD 00477 PUSHL #1 C A7 DD 00479 PUSHL 920	(ADA_CONTROL)
	0000000G 00	4 A7 DD 0047C PUSHL 100 04 FB 0047F 69\$: CALLS #4, 8 A2 9E 00486 70\$: MOVAB 8(R	DBG\$TRACEBACK
-		4 A7 DD 0047C PUSHL 100 04 FB 0047F 69\$: CALLS #4, 8 A2 9E 00486 70\$: MOVAB 8(R FF57 31 0048A BRW 59\$ 02 EF 0048D 71\$: EXTZV #2, 51 D2 00492 MCOML R1, 51 CA 00495 BICL2 R1,	ADA_CONTROL) (ADA_CONTROL) (DBG\$TRACEBACK (2), LINK (1), QUALIFIERS, R1 (R0) (M1, QUALIFIERS, R2 (R2) (R0) (R0) (M1)
51	59 01 51	FF57 31 0048A	#1, QUALIFIERS, R1 1890 R1 R0 #1, QUALIFIERS, R2 R2 R0 R0 R0
52	59 01	00 EF 00498 EXTZV #0. 52 DZ 0049D MCOML R2.	#1, QUALIFIERS, R2
	50	52 D2 0049D MCOML R2. 52 CA 004AO BICL2 R2. 50 D2 004A3 MCOML RO.	RO
	50 50 01	52 CA 004A0 BICL2 R2. 50 D2 004A3 MCOML R0. 50 D1 004A6 CMPL R0. 01 13 004A9 BEQL 72\$	#1
28	00 6E	A. A	(SP), #0, #40, (ADA_CONTROL) 1892
02 A7		67 004P1	12 M -
) or n.	20 A7 000	0V CF 9E 004BB MOVAB DBG 07 8A 004BE BICB2 #7. 04 BO 004C2 MOVW #4.	SEXTSPRINT ROUTINE, 32(ADA_CONTROL)
	18 A7 67 0	04 B0 004C2 MOVW #4. 4 A7 D4 004C5 CLRL 4(A 57 DD 004C8 PUSHL ADA	(ADA CONTROL) 1893
	0000000G 00	31 FO 004B2 INSV #49 OV CF 9E 004B8 MOVAB DBG O7 8A 004BE BICB2 #7, O4 BO 004C2 MOVW #4, 4 A7 D4 004C5 CLRL 4(A 57 DD 004C8 PUSHL ADA O1 FB 004CA CALLS #1,	D. #0, #12, 2(ADA_CONTROL) SEXT\$PRINT_ROUTINE, 32(ADA_CONTROL) , 24(ADA_CONTROL) , (ADA_CONTROL) A_CONTROL) A_CONTROL , ADA\$DBGEXT

	DBGTASK V04-000 DBG\$	NEXECUTE,	_SHOW_TASK					1	7 -Sep-	1984 02:43 1984 12:17	:49	VAX-11 Bliss-32 [DEBUG.SRC]DBG1	2 V4.0-742 ASK.B32;1	Pag	e (22 (6)
			00000000G	07 00 07 00 59 67	04	50 00 A7 03 0F	E8 E8 E8 E10 D4	004D1 004D8 004DF 004E6 004EA	73\$: 74\$:	BLBS CALLS BLBS CALLS BBC MOVW		73\$ LIB\$SIGNAL (ADA_CONTROL), 74\$ QUALIFIERS, 82\$ (ADA_CONTROL)			1894 1896
			00000000G	00 07 00 00 02	04	57 01 50 00 A7 A7	DBB EBB ED	004F0 004F2 004F0 00503 00507	75\$:	BLBS CALLS BLBS CALLS BBC MOVW CLRL PUSHL CALLS BLBS CALLS CMPL BEQL CALLS CMPL BEQL CALLS CMPL BNEQ	ADA. #1. RO. #0. 4(AD	QUALIFIERS, 82\$, (ADA_CONTROL) , (ONTROL) , CONTROL ADASDBGEXT 75\$ LIB\$SIGNAL DA_CONTROL), 76\$ DA_CONTROL), 76\$			
			0000000G	00	04	07 00 A7 31	13 FB D1 12	00514 00518	76\$:	CALLS CMPL BNEQ	#0. 4(AD	LIB\$SIGNAL OA_CONTROL), #2			
			000000006	00 08 00 50	0000000G	05 04 02 04	E0 E8 E1 D0	0051A 00522 00529 00531 00534	775:	BBS BLBS BBC MOVL BRB MOVL PUSHR	#5. DBG1 #4. #2. 79\$	DBG\$RUNFRAME+73, BRUNFRAME+72, 77\$ DBG\$RUNFRAME+73, EXC_TYPE	77\$ 78\$		
The second secon				50	00000000G 00000000G	01 8F 00 0A	00 88 00 00 11	00536 00539 00530 00543 00549	78\$: 79\$:	PUSHL	#1 #^M<	EXC_TYPE KRO,R10> BRUNFRAME+56 BRUNFRAME+64			
			00000000G	00	5 C 64	5A 01 A7 A7 04	DD DD DD FB 04	0054D 0054F	80\$: 81\$: 82\$:	BRB PUSHL PUSHL PUSHL PUSHL CALLS RET	CALL W1	ADA_CONTROL) (ADA_CONTROL) DBG\$TRACEBACK			1908

; Routine Size: 1373 bytes, Routine Base: DBG\$CODE + 0015

; 710 1909 1

SET TASK /ACTIVE. Construct an Adverb Node and link it in.

[DBG\$NMATCH(.INPUT_DESC, DBG\$CS_ACTIVE, 2)]:

```
DBGTASK
V04-000
                                                                                                     16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
                                                                                                                                          VAX-11 Bliss-32 V4.0-742
[DEBUG.SRC]DBGTASK.B32;1
                                                                                                                                                                                                   Page (7)
                         DBG$NPARSE_SET_TASK
                                                               BEGIN
                                                              ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_ACTIVE;
     772
773
774
775
776
777
780
781
782
783
784
                                                            SET TASK /ALL. Construct an Adverb Node and link it in.
                                                           DBG$NMATCH( .INPUT_DESC, DBG$CS_ALL, 2 ) ]:
                                                               BEGIN
                                                               ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_ALL;
                         1980
     788
789
790
791
792
793
794
795
796
799
800
                                                            SET TASK /VISIBLE. Construct an Adverb Node and link it in.
                         1988
                                                           DBG$NMATCH( .INPUT_DESC, DBG$CS_VISIBLE, 1 ) ]:
                         1989
                                                               BEGIN
                         1990
1991
1992
1993
1994
1995
                                                               ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
                                                               .LINK = .ADVERB NODE
                                                               LINK = ADVERB NODE [DBG$L_ADVERB_LINK]:
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_VISIBLE:
                                                               END:
                         1996
1997
                                                           SET TASK /PRIORITY=(n). Construct an Adverb Node and link it in.
                         1998
     801
                         DBG$NMATCH( .INPUT_DESC, DBG$CS_PRIORITY, 1 ) ]:
    802
                                                               BEGIN
                                                              ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
.LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_PRIORITY;
     804
805
806
807
808
809
                                                               IF DBG$NMATCH( .INPUT_DESC, DBG$CS_COLON, 1 )
OR DBG$NMATCH( .INPUT_DESC, DBG$CS_EQUAL, 1 )
     810
                                                                      IF DBG$NMATCH( .INPUT_DESC, dbg$cs_left_paren, 1 )
                                                                     THEN
                                                                           BEGIN
                                                                                                                                                       %((FIX THIS CAN'T HAVE MULTIPLE PRIO
                                                                            DO
     815
                                                                                  BEGIN
                                                                                 DBG$NSAVE_DECIMAL_INTEGER(
.INPUT_DESC.
PRIORITY);
     816
                                                                                                                                                       ! read input value
                                                                                  IF .PRIORITY GTRU 31
                                                                                                                                                       ! %((need priority limit -tbs))%
                                                                                         SIGNAL (DBG$_BITRANGE );
                                                                                                                                                       ! %((NEED A BETTER MESSAGE -tbs))%
                                                                                  (ADVERB_NODE [DBG$L_ADVERB_VALUE]) <.PRIORITY, 1, 0> = 1; ! set corresponding
                                                                           WHILE DBG$NMATCH( .INPUT_DESC, dbg$cs_comma, 1 );
IF NOT DBG$NMATCH( .INPUT_DESC, dbg$cs_right_paren, 1 )
```

```
16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
DBGTASK
VO4-000
                                                                                                                         VAX-11 Bliss-32 V4.0-742
LDEBUG.SRCJDBGTASK.B32:1
                                                                                                                                                                          Page
                      DBG$NPARSE_SET_TASK
                                                                        SIGNAL (dbgs_UNMTCHPARN);
                                                                                                              ! Unmatched left parenthesis found.
                                                                  END
                                                            ELSE
                                                                  BEGIN
                                                                 DBG$NSAVE_DECIMAL_INTEGER(
INPUT_DESC,
PRIORITY);
                                                                                                                                    ! read input value
                      .PRIORITY GTRU 31
                                                                                                                         ! %((need a limit -tbs))%
                                                                        SIGNAL (DBG$_BITRANGE );
                                                                                                                           %((NEED A BETTER MESSAGE -tbs))%
                                                                  (ADVERB_NODE [DBGSL_ADVERB_VALUE]) <. PRIORITY, 1, 0> = 1;
                                                                                                                                                          ! set corresponding
                                                       ELSE
    SIGNAL (DBG$_NEEDMORE);
                                                       END:
                                                    SET TASK /RESTORE. Construct an Adverb Node and link it in.
                                                    DBG$NMATCH( .INPUT_DESC, DBG$CS_RESTORE, 3 ) ]:
                                                       ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_RESTORE;
    856
857
858
859
                                                    SET TASK /RELEASE or SET TASK /NOHOLD. Construct an Adverb Node and link it in.
                                                    DBG$NMATCH( .INPUT_DESC, DBG$CS_RELEASE, 3 );
DBG$NMATCH( .INPUT_DESC, DBG$CS_NOHOLD, 3 ) ]:
    860
860
866
866
866
866
866
877
877
877
877
                                                       BEGIN
                                                       ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
                                                      LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_RELEASE;
                                                    SET TASK /HOLD. Construct an Adverb Node and link it in.
                                                    DBG$NMATCH( .INPUT_DESC, DBG$CS_HOLD, 1 ) ]:
                                                       BEGIN
                                                       ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
                                                       LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAC] = TASK_HOLD;
                                                       END:
    878
879
880
881
882
                                                    SET TASK /TERMINATE. Construct an Adverb Node and link it in.
                                                    DBG$NMATCH( .INPUT_DESC, DBG$CS_TERMINATE, 1 ) ]:
                                                       BEGIN
```

```
DBGTASK
V04-000
                                                                               16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
                                                                                                             VAX-11 Bliss-32 V4.0-742
[DEBUG.SRC]DBGTASK.B32;1
                                                                                                                                                          Page
                   DBG$NPARSE_SET_TASK
                                                 ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_TERMINATE;
   Any other condition is an error.
                                             [ OTHERWISE ]:
                                                  DBG$SYNTAX_ERROR(.INPUT_DESC);
                                             TES:
                   END:
                                                            ! of WHILE /qualifier
                                   .LINK = 0:
                                                            ! End of adverb node chain.
                                   IF NOT DBG$NMATCH( .INPUT_DESC, DBG$CS_CR, 1 )
                                                                                                    ! If more input exists then
                                   THEN
                                                                                                    ! try to parse a task list.
                                        LINK = VERB_NODE [DBG$L_VERB_OBJECT_PTR];
                                                 Parse tasks in a task list and build noun nodes and value
                                                  descriptors until end of list or an error is encountered.
                                             BEGIN
   911
                                             NOUN_NODE = DBG$GET_TEMPMEM (DBG$K_NOUN_NODE_SIZE); ! %((NEED LONG NOUN ?-tbs))%
   912
913
914
915
                                             .LINK = .NOUN_NODE :
                                            LINK = NOUN_NODE [DBG$L_NOUN_LINK];
                                            DBG$NPARSE_EXPRESSION (
.INPUT_DESC,
   916
917
918
919
                                                                                                      rest of command
                                                  .DBG$GB_RADIX[DBG$B_RADIX_INPUT],
                                                                                                      default input radix
                                                  NOUN_NOTE [DBG$L_NOUN_VALUE],
                                                                                                      where to store ptr to value desc
                                                  TOKENSK_TERM_COMMA );
                                                                                                    ! task terminator token
   920
921
923
923
924
926
927
928
931
933
933
933
                                             !
                                                                                                   %((REMOVE MESSAGE VEC FROM ROUTINE -tbs))%
                                                  .MESSAGE_VECT);
                                       WHILE DBG$NMATCH( .INPUT_DESC, DBG$CS_COMMA, 1 );
                                        IF NOT DBG$NMATCH( .INPUT_DESC, DBG$CS_CR, 1 )
                                                                                                     If more input exists then
                                                                                                   ! we have an error. ! Signal the error.
                                             DBG$SYNTAX_ERROR(.INPUT_DESC);
                                       END:
                                   RETURN 0:
                                                                     ! %((0?-tbs))%
                                   END:
                                                                     ! end of DBG$NPARSE_SET_TASK
```

							Sep 1	704 16.17	[2기 전쟁 기계 [2011] [2012] 이 1 전 1 이 1 전에 이 1 전에 하는 사이 1 전 1 전에 하는 사이에 제 이 1 전에 하는데 되었다. [2012]	(1)
				OF	FC	00000		.ENTRY	DBG\$NPARSE_SET_TASK, Save R2,R3,R4,R5,R6,-	: 1911
		58 59 58 58 56 56	000000006 000000006 000000006 000000006 000000	00 00 00 00 EF 00 04	9E 9E 9E 9E 9E 9E 9E	00002 00009 00010 00017 0001E 00025 0002C		MOVAB MOVAB MOVAB MOVAB MOVAB SUBL2 ADDL3	DBG\$NPARSE_SET_TASK, Save R2,R3,R4,R5,R6,- R7,R8,R9,RT0,RT1 DBG\$SYNTAX_ERROR, R11 DBG\$SSYNTAX_ERROR, R11 DBG\$NSAVE_DECIMAL_INTEGER, R10 LIB\$SIGNAE, R9 DBG\$GET_TEMPMEM, R8 DBG\$CS_COMMA, R7 DBG\$NMATCH, R6 #4, SP #4, VERB_NODE, LINK INPUT_DESC, R3	
54	08	AC 53	04 06	04	C1 D0 DD	0002F 00034 00038	15:	ADDL3 MOVL PUSHL PUSHAB	#4, VERB_NODE, LINK INPUT_DESC, R3 #1	1951 1956
		66	00	03 03 01BE	DD FB E8	0003A 0003D 00045 00045 00048 0004A 00050 00053 0005A 00060 00063 00067	2\$:	CALLS BLBS BRW	DBG\$CS_SLASH R3 #3. DBG\$NMATCH R0. 2\$ 26\$	1044
		66	FF70	53 03 50	DD 9F DD FB	0004A 0004E 00050 00053	20.	PUSHAB PUSHL CALLS CMPL	DBG\$CS_ACTIVE R3 #3, DBG\$NMATCH	1966
		68		03	12 DD FB DO	00056 00058 0005A 0005D		PUSHL CALLS MOVL	RO, W1 3\$ W3 W1, DBG\$GET_TEMPMEM RO, ADVERB_NODE ADVERB_NODE, (LINK) 8(R2), LINK	1968
		68 52 64 54 62	08	CC	11	00064	te.	MOVAB MOVB BRB PUSHL	ADVERB_NODE, (LINK) 8(R2), LINK #1, (ADVERB_NODE) 1\$ #2	: 1969 : 1970 : 1971 : 1961 : 1977
		66	FF77	53 03 50	וס	0006C 0006E 00072 00074 00077		PUSHAB PUSHL CALLS CMPL BNEQ	DBG\$CS_ALL R3 #3, DBG\$NMATCH	
		68		03	12 DD FB DO 9E	0007A 0007C 0007E 00081		BNEQ PUSHL CALLS MOVL MOVL	#3 #1, DBG\$GET_TEMPMEM RO, ADVERB_NODE ADVERB_NODE, (LINK) 8(R2), LINK #2, (ADVERB_NODE) 1\$	1979
		68 52 64 54 62	08	A8	9E 90 11	00087 00088 0008E 00090	48:	MOVAD	그 사람들은 아이들이 나를 보는 것으로 가는 것이 없는 것이 없었다. 그는 장면에 나를 살아내는 것이 없는 것이 없다면 살아내는 것이 없다면 없다면 없다면 없다면 없다면 없다.	1980 1981 1982 1961 1988
		66	CF	53 03 50	DD 9F DD FB D1	0007C 0007E 00081 00084 00087 0008E 00090 00092 00097 0009A 0009F 000AA 000AA 000AE 000B1 000B3		MOVB BRB PUSHL PUSHAB PUSHL CALLS CMPL BNEQ PUSHL CALLS	DBG\$CS_VISIBLE R3 #3. DBG\$NMATCH R0. #1	
		68264	00	03 01 50 52 A2 085	DD FB DO DO 9E	0009F 000A1 000A4 000A7		PUSHL CALLS MOVL MOVAB MOVB	#3 #1. DBG\$GET_TEMPMEM RO. ADVERB_NODE ADVERB_NODE, (LINK) 8(R2), LINK #13, (ADVERB_NODE)	1990
		62	08		90 11 DD	000AE 000B1 000B3	5\$: 6\$:	MOVAB BRB PUSHL	#13, (ADVERB_NODE) 1\$ #1	1991 1992 1993 1961 1999

DBGTASK VO4-000	DBG\$NPARSE_SET_TASK					H 7 16-se 14-se	p-1984 02:43 p-1984 12:17	:49 VAX-11 BLiss-32 V4.0-742 :52 [DEBUG.SRC]DBGTASK.B32;1	Page 28
			98	A7	9F DD FB	000B5 000B8 000BA 000BD	PUSHAB	DBG\$CS_PRIORITY	1
		01		A7 53 50 009B 01	D1 13	000BD 000C0	PUSHAB PUSHL BEGL BRW PUSHL MOVAB MOVAB MOVAB PUSHAB	DBG\$CS_PRIORITY R3 #3. DBG\$NMATCH R0. #1 7\$ 16\$	
		68		009B	DD FB	000C0 000C2 000C5 7\$: 000CA 000CD 000CD 000D0 000D4 000D7 000D9	PUSHL CALLS		2001
		68 52 64 54		50	DO	000CA 000CD	MOVL	RO. ADVERB NODE ADVERB NODE. (LINK)	2002
		62	08	52 A2 07	9E 90	00000 00004	MOVAB MOVB	#1, DBG\$GET_TEMPMEM RO, ADVERB_NODE ADVERB_NODE, (LINK) 8(R2), LINK #7, (ADVERB_NODE)	2003 2004 2004 2006
			FE	01 A7	DD 9F	000D7 000D9	PUSHL	DBG\$CS_COLON	2006
		66		03	FB	000DC 000DE 000E1 000E4	CALLS	#3. DBG\$NMATCH	
		· ·	04	50 01 A7	DD 9F	MANER	PUSHL	RO, 8\$ #1 DBG\$CS_EQUAL	2007
		66		53	DD FB	000E9 000EB	PUSHL	#3. DBG\$NMATCH RO. 14\$	
		64		01	E9	000E9 000EB 000EE 000F1 000F3 000F6 000F8 000FB	BLBC PUSHL		2009
		66	FA	A7	9F DD FB	000F6	PUSHL	DBG\$CS_LEFT_PAREN R3 #3, DBG\$NMATCH	
		66 3B	4008	03 50 8F 02	E9 BB FB	000FB 000FE 9\$:	BLBC PUSHR	RO, 12\$	2019
		6A 1F		02 6E 09	FB D1	00102 00105 00108 0010A 00110	CALLS	RO. 12\$ #^M <r3,sp> #2, DBG\$NSAVE_DECIMAL_INTEGER PRIORITY, #31 10\$ #164424</r3,sp>	2017
		40	00028248	8F 01	DD FB	00108 0010A	PUSHL	#164424	2019
	00 04	69 A2		6E	ES	00113 10\$ 00118 11\$: BBSS	PRIORITY, 4(ADVERB_NODE), 11\$	2020
		66	0088	6E 01 8F 03	E2 DD BB FB	00113 10\$ 00118 11\$ 0011A 0011E 00121	PUSHR	#^M <r3,r7> #3. DBG\$NMATCH</r3,r7>	
		66 DA		50	E8	00121	BLBS PUSHL	#3. DBG\$NMATCH RO. 9\$ #1	2023
			FC	53	9F DD	00126 00129	PUSHAB	DBG\$CS_RIGHT_PAREN	
		80	00028700	50	E8	0012E	BLBS	#3, DBG\$NMATCH R0, 5\$ #145840	2025
			4008	8F 22 8F	11 88	00131 00137 00139 12\$	BRB : PUSHR	15\$ #^M <r3.sp></r3.sp>	2030
		6A 1F		02 6E	BB FB D1	00130 00140 00143	CALLS	#2. DBG\$NSAVE_DECIMAL_INTEGER PRIORITY, #31	2032
			00028248	09 8F	1B DD FB	00143	CALLS BBSS PUSHL PUSHR CALLS BLBS PUSHL PUSHAB PUSHL CALLS BLBS PUSHL CALLS BRB	DBG\$CS_RIGHT_PAREN R3 W3. DBG\$NMATCH R0. 5\$ W165840 15\$ W^M <r3.sp> W2. DBG\$NSAVE_DECIMAL_INTEGER PRIORITY, W31 13\$ W164424 W1. LIB\$SIGNAL PRIORITY, 4(ADVERB_NODE), 19\$</r3.sp>	2034
	63 04	69 A2		6E	E2	00145 00148 0014E 13\$: BBSS	PRIORITY, 4(ADVERB_NODE), 19\$	2035 2005 2038
		69	00028000	6E 61 8F 01	DD	00155 148 0015B 158	PUSHL	19\$ #164048 #1, LIB\$SIGNAL	:
				79	11	0015E	BRB PUSHL	#1 LIB\$SIGNAL 21\$	1961

DBGTASK V04-000					1 7 16-Sep-1984 02: 14-Sep-1984 12:	43:49 VAX-11 Bliss-32 V4.0-742 17:52 [DEBUG.SRC]DBGTASK.B32:1	Page 29 (7)
V04-000	DBG\$NPARSE_SET_TASK			47			(7)
		66	AC	4533051431055A099	9F 00162 PUSHA DD 00165 PUSHL FB 00167 CALLS D1 0016A CMPL 12 0016D BNEQ	B DBG\$CS_RESTORE R3 #3. DBG\$NMATCH R0. #1 17\$	
		66		50	D1 0016A CMPL 12 0016D BNED	RO, #1	
		68		03	DD 0016F PUSHL FB 00171 CALLS	#3 #1, DBG\$GET_TEMPMEM	2047
		68 52 64 54		50	DO 00174 MOVL DO 00177 MOVL	RO, ADVERB NODE ADVERB_NODE, (LINK)	2048
		62	08	82 99	DD 0016F PUSHL CALLS DO 00174 MOVL DO 00177 MOVL 90 0017A MOVAB 90 0017E MOVB 11 00181 BRB	8(R2), LINK #9, (ADVERB_NODE)	2049
				03	DO 00174 DO 00177 PE 0017A PO 0017E HOVL PO 0017E HOVAB PO 00181 DD 00183 PUSHL PUSHL PUSHL PUSHL CALLS DO 0018D D1 00190 CMPL BEQL PUSHL PUSHL PUSHL CALLS PUSHL CALLS PUSHL	#1, DBG\$GET_TEMPMEM RO, ADVERB_RODE ADVERB_NODE, (LINK) 8(R2), LINK #9, (ADVERB_NODE) 23\$	2048 2049 2050 1961 2056
		44	A4	53	DD 00188 PUSHL FB 0018A CALLS	B DBG\$CS_RELEASE R3 W3. DBG\$NMATCH R0. R5 R5. W1 18\$	
		66 55 01		50	DO 0018D MOVL	RO, RS	
		•		OF O3	13 00193 BEQL	18\$	2057
			94	A7	DD 00195 PUSHL 9F 00197 PUSHA DD 0019A PUSHL FB 0019C CALLS	B DBG\$CS_NOHOLD	
		66		03	FB 0019C CALLS D1 0019F CMPL	#3. DBG\$NMATCH	
				0A5055563733043102228B1	12 001A2 DD 001A4 18\$: PUSHL FB 001A6 CALLS	R3 #3, DBG\$NMATCH R0, #1 20\$ #3 #1, DBG\$GET_TEMPMEM	2059
		68 52 64 54		50	DO 001A6 CALLS	#1. DBG\$GET_TEMPMEM RO. ADVERB_NODE ADVERB_NODE, (LINK) 8(R2), LINK #8, (ADVERB_NODE)	2040
		54	08	80 80	00 001AC MOVL 9E 001AF MOVAB 90 001B3 MOVB	8(R2), LINK	2061
		02		4B	11 001B6 19\$: BRB DD 001B8 20\$: PUSHL	#8 (ADVERB_NODE) 25\$ #1	2060 2061 2062 1961 2068
			8F	A7	9F 001BA PUSHA DD 001BD PUSHL	B DBG\$CS_HOLD	
		66 01		03 50 14	FB 001A6 D0 001A9 D0 001AC 9E 001AF 90 001B3 11 001B6 19\$: BRB DD 001B8 20\$: PUSHL 9F 001BA DD 001BD FB 001BF D1 001C2 12 001C5 DD 001C7 FB 001C9 D0 001CF MOVL	R3 #3, DBG\$NMATCH R0, #1 22\$ #3 #1, DBG\$GET_TEMPMEM	
				03	12 001C5 BNEQ DD 001C7 PUSHL FB 001C9 CALLS	22 \$	2070
		68 52 64 54 62		03 05 05 05 05 05 05 05 05 05 05 05 05 05	PB 001C9 CALLS	#1. DBG\$GET_TEMPMEM RO. ADVERB_NODE ADVERB_NODE, (LINK) 8(R2). LINK #6. (ADVERB_NODE) 25\$	2071
		54	08	AS	DO 001CC MOVL DO 001CF MOVL 9E 001D2 MOVAB 90 001D6 MOVB 11 001D9 21\$: BRB	8(R2), LINK	2071 2072 2073 1961 2079
		02		28	11 00109 21\$: BRB DD 00108 22\$: PUSHL	25\$	1961
			C5	A7	DD 001DB 22\$: PUSHL 9F 001DD PUSHA DD 001E0 PUSHL FB 001E2 CALLS	B DBG\$CS_TERMINATE	
		66		03	DI OUIES CMPL	R3 #3. DBG\$NMATCH R0. #1 24\$ #3 #1. DBG\$GET_TEMPMEM	
				03	12 001E8 BNEQ DD 001EA PUSHL FB 001EC CALLS	24\$	2081
		52		03 01 50 50 80 80 80 80 80 80 80 80 80 80 80 80 80	PB 001EC CALLS	#1, DBG\$GET_TEMPMEM RO, ADVERB_NODE ADVERB_NODE, (LINK) 8(R2), LINK #12, (ADVERB_NODE)	1
		68 52 64 54	08	25 A	00 001EF MOVL 00 001F2 MOVL 9E 001F5 MOVAB 90 001F9 MOVB	8(R2), LINK	2082 2083 2084

e (7)
1961 2091 1956 2097 2099
2102
2110 2111 2116
2122
2122
2124
2126 2132

; Routine Size: 604 bytes, Routine Base: DBG\$CODE + 0572

; 935 2133 1

[DBG\$NMATCH(.INPUT_DESC, DBG\$CS_ALL, 1)]:

ADVERB_NODE = DBG\$GET_TEMPMEM (DBG\$K_ADVERB_NODE_SIZE);

BEGIN

.LINK = .ADVERB_NODE;

Page

```
DBGTASK
V04-000
                                                                                                              VAX-11 Bliss-32 V4.0-742
EDEBUG.SRCJDBGTASK.B32;1
                    DBG$NPARSE_SHOW_TASK
  1051
1052
1053
                                                  LINK = ADVERB NODE [DBG$L ADVERB LINK];
ADVERB NODE [DBG$B ADVERB LITERAL] = TASK HOLD;
SHOW TASK /PRIORITY=(n). Construct an Adverb Node and link it in.
                                               DBG$NMATCH( .INPUT_DESC, DBG$CS_PRIORITY, 1 ) ]:
                                                  BEGIN
                                                  ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_PRIORITY;
                                                  IF DBG$NMATCH( .INPUT_DESC, DBG$CS_COLON, 1 )
                                                       OR DBG$NMATCH( .INPUT_DESC, DBG$CS_EQUAL, 1 )
                                                       IF DBG$NMATCH( .INPUT_DESC, dbg$cs_left_paren, 1 )
                                                            BEGIN
                                                            DO
                                                                 DBG$NSAVE_DECIMAL_INTEGER(
INPUT_DESC.
PRIORITY);
                                                                                                                        ! read input value
                                                                 IF .PRIORITY GTRU 31
                                                                                                                        ! %((need priority limit -tbs))%
                                                                 THEN
                                                                                                                        ! %((NEED A BETTER MESSAGE -tbs))%
                                                                      SIGNAL (DBGS_BITRANGE );
                                                                 (ADVERB_NODE [DBG$L_ADVERB_VALUE]) <.PRIORITY, 1, 0> = 1; ! set corresponding
                                                            WHILE DBG$NMATCH( .INPUT_DESC, dbg$cs_comma, 1 );
IF NOT DBG$NMATCH( .INPUT_DESC, dbg$cs_right_paren, 1 )
                                                                 SIGNAL (dbg$_UNMTCHPARN);
                                                                                                   ! Unmatched left parenthesis found.
                                                            END
                                                       ELSE
                                                            BEGIN
                                                            DBG$NSAVE DECIMAL INTEGER (
INPUT DESC,
PRIORITY);
                                                                                                                        ! read input value
                                                               .PRIORITY GTRU 31
                                                                                                              ! %((need a limit -tbs))%
                                                                                                              ! %((NEED A BETTER MESSAGE -tbs))%
                                                                 SIGNAL (DBGS_BITRANGE );
                                                            (ADVERB_NODE [DBG$L_ADVERB_VALUE]) <.PRIORITY, 1, 0> = 1;
                                                                                                                                            ! set corresponding
                                                  ELSE
                                                       SIGNAL (DBG$_NEEDMORE);
                                                  END:
  1102
                                                SHOW TASK /STATE=(x). Construct an Adverb Node and link it in.
  1104
1105
                                               DBG$NMATCH( .INPUT_DESC, DBG$CS_STATE, 5 ) ]:
                                                  BEGIN
  1106
1107
                                                  ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
                                                  .LINK = .ADVERB_NODE;
```

```
N 7
16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
DBGTASK
V04-000
                                                                                                                                             VAX-11 Bliss-32 V4.0-742 EDEBUG.SRCJDBGTASK.B32:1
                         DBG$NPARSE_SHOW_TASK
                                                                LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_STATE;
                                                                IF DBG$NMATCH( .INPUT_DESC, DBG$CS_COLON, 1 )
OR DBG$NMATCH( .INPUT_DESC, DBG$CS_EQUAL, 1 )
                                                                       IF DBG$NMATCH( .INPUT_DESC, dbg$cs_left_paren, 1 )
                                                                            BEGIN
DO
                                                                                    SELECTONE TRUE OF
                                      X((THIS WILL OVERWRITE ADVERB VALUE WITH THE MOST RECENT STATE OF THE LIST -- MUST BE FIXED -tbs))%

[ DBG$NMATCH( .INPUT_DESC, DBG$CS RUNNING, 1 ) ]:

ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_RUNNING;
                                                                                          [ DBG$NMATCH( .INPUT_DESC, DBG$CS_READY, 1 ) ]:
ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_READY;
                                                                                          C DBG$NMATCH( .INPUT_DESC, DBG$CS_SUSPENDED, 1 ) ]:
   ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_SUSPENDED;
                                                                                          C DBG$NMATCH( .INPUT_DESC, DBG$CS_TERMINATED, 1 ) ]:
   ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_TERMINATED;
                                                                                             Any other condition is an error.
                                                                                          C OTHERWISE J:
                                                                                                DBG$SYNTAX_ERROR(.INPUT_DESC);
                                                                                          TES
                                                                             WHILE DBG$NMATCH( .INPUT_DESC, dbg$cs_comma, 1 );
IF NOT DBG$NMATCH( .INPUT_DESC, dbg$cs_right_paren, 1 )
                                                                                   SIGNAL (dbg$_UNMTCHPARN);
                                                                                                                                ! Unmatched left parenthesis found.
                                                                             END
                                                                      ELSE
                                                                             SELECTONE TRUE OF
   1148
1149
1150
1151
1152
1153
1154
1156
1157
1160
1161
1162
1163
                                                                                   [ DBG$NMATCH( .INPUT_DESC, DBG$CS_RUNNING, 1 ) ]:
ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_RUNNING;
                                                                                    [ DBG$NMATCH( .INPUT_DESC, DBG$CS_READY, 1 ) ]:
                                                                                          ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_READY;
                                                                                   [ DBG$NMATCH( .INPUT_DESC, DBG$CS_SUSPENDED, 1 ) ]:
ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_SUSPENDED;
                                                                                    [ DBG$NMATCH( .INPUT_DESC, DBG$CS_TERMINATED, 1 ) ]:
ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_TERMINATED;
                                                                                       Any other condition is an error.
   1164
                                                                                    [ OTHERWISE ]:
```

```
DB
```

```
DBGTASK
V04-000
                                                                                                                       VAX-11 Bliss-32 V4.0-742 EDEBUG. SRCJDBGTASK. B32:1
                      DBG$NPARSE_SHOW_TASK
: 1165
: 1167
: 1168
: 1169
: 1170
: 1171
: 1172
: 1173
: 1174
: 1175
: 1176
: 1177
: 1178
: 1179
: 1180
                                                                            DBG$SYNTAX_ERROR(.INPUT_DESC);
                                                                       TES
                                                      ELSE
                                                            SIGNAL (DBG$_NEEDMORE);
                                                      END:
                                                   SHOW TASK /STATISTICS. Construct an Adverb Node and link it in.
                                                   DBG$NMATCH( .INPUT_DESC, DBG$CS_STATISTICS, 5 ) ]:
                                                      BEGIN
                                                      ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_STATISTICS;
  1180
  1181
  1182
  1183
  1184
  1185
                                                   Any other condition is an error.
  1186
  1187
                                                 [ OTHERWISE ]:
  1188
                                                      DBG$SYNTAX_ERROR(.INPUT_DESC);
  1189
  1190
                                                 TES:
  1191
  1192
                                           END:
                                                                 ! of WHILE /qualifier
  1193
  1194
                                      .LINK = 0:
                                                                 ! End of adverb node chain.
  1196
1197
                                      IF NOT DBG$NMATCH( .INPUT_DESC, DBG$CS_CR, 1 )
                                                                                                             ! If more input exists then
  1198
1199
1200
1201
1202
1203
1204
1205
1206
1207
1218
1216
1218
1218
                                      THEN
                                                                                                             ! try to parse a task list.
                                           BEGIN
                                           LINK = VERB_NODE [DBG$L_VERB_OBJECT_PTR];
                                                      Parse tasks in a task list and build noun nodes and value
                                                      descriptors until end of list or an error is encountered.
                                                 BEGIN
                                                 NOUN_NODE = DBG$GET_TEMPMEM (DBG$K_NOUN_NODE_SIZE); ! %((NEED LONG NOUN ?-tbs))%
                                                 .LINR = .NOUN_NODE
                                                 LINK = NOUN_NODE [DBG$L_NOUN_LINK];
                                                DBG$NPARSE_EXPRESSION (
.INPUT_DESC,
.DBG$GB_RADIX[DBG$B_RADIX_INPUT],
                                                                                                               rest of command
default input radix
                                                      NOUN NODE [DBG$L NOON_VALUE],
TOKENSK_TERM_COMMA );
                                                                                                               where to store ptr to value desc
                                                                                                               task terminator token
                                                      .MESSAGE_VECT);
                                                                                                            %((REMOVE MESSAGE VEC FROM ROUTINE -tbs))%
                                           WHILE DBG$NMATCH( .INPUT_DESC, DBG$CS_COMMA, 1 );
```

DBGTASK V04-000	DBG\$NI	PARSE_SH	OW_TASK					1	S-Sep 4-Sep	-1984 02:43 -1984 12:17	3:49 VAX-11 Bliss-32 V4.0-742 :52 [DEBUG.SRC]DBGTASK.B32;1	Page	36
1222 1223 1224 1225 1226 1227 1228 1229 1230	2419 2421 2422 2423 2423 2425 2426	5	END;		SNMATCH(PUT	ESC, DI _DESC) ((0?-ti	BG\$CS ; bs))%	_CR, 1)	If more input exists then we have an error. Signal the error.		
; 1230	2421	, ,	ND;			(00000		PARSE_SHOW_	NACENDARCE CHOM TACK COME DO DE DA DE DA	- : 2	213
				54 558 555 555 555 555	00000000G 00000000G 00000000G 00000000°			00002 00009 00010 00017 0001E 00025 0002C		MOVAB MOVAB MOVAB MOVAB MOVAB SUBL 2 ADDL 3	R7,R8,R9,R10 DBG\$SYNTAX_ERROR, R10 LIB\$SIGNAL, R9 DBG\$NSAVE_DECIMAL_INTEGER, R8 DBG\$GET_TEMPMEM, R7 DBG\$CS_COLON, R6 DBG\$NMATCH_R5		
		54	08	AC 53 65 03	04 08	04 AC 01 A6 53 03 02BF	99999999999999999999999999999999999999	0002F 00038 0003A 0003D 0003F 00042		ADDL3 MOVL PUSHL PUSHAB PUSHL CALLS BLBS BRW	M4. SP M4. VERB_NODE, LINK INPUT_DESC, R3 M1 DBG\$CS_SLASH R3 M3. DBG\$NMATCH R0. 2\$ 39\$ M1		217 218
				65 01	FF79	01 053 03 50 14	9F 0D FB 01 12	00048	2\$:	PUSHL PUSHAB PUSHL CALLS CMPL BNEQ	M1 DBG\$CS_ALL R3 M3. DBG\$NMATCH R0. M1 4\$		219
				67 52 64 54 62	08	03 01 50 52 02 01	DD FB DO 9E 90 11	0004A 0004E 00053 00056 0005A 0005D 0006A 0006C 0006E 00074 00077 0007A 00081 0008B 0008E	3\$: 4\$:	PUSHL PUSHAB PUSHL CALLS CMPL BNEQ PUSHL MOVAB MOVAB MOVAB PUSHL PUSHAB PUSHL CALLS CMPL BNEQ PUSHL CALLS MOVL MOVAB MOVAB MOVAB PUSHL CALLS	#1, DBG\$GET_TEMPMEM RO, ADVERB_NODE ADVERB_NODE, (LINK) 8(R2), LINK #2, (ADVERB_NODE) 1\$	•	219 219 219 218 218 220
				65 01	FF7D	53	DD 9F DD FB D1 12 DD	0006E 00072 00074 00077 0007A	40:	PUSHAB PUSHL CALLS CMPL BNEQ PUSHL	DBG\$CS_CALLS R3 #3, DBG\$NMATCH R0, #1 8\$		220
				67 52 64 54 62	08	030 050 050 050 050 050 050 050 050 050	12 DD FB DO 90 DD	0007E 00081 00084 00087 0008B 0008E		CALLS MOVL MOVAB MOVB PUSHL	#1, DBG\$GET TEMPMEM RO, ADVERB NODE ADVERB_NODE, (LINK) 8(R2), LINK #3, (ADVERB_NODE) #1	•	200

DB VO

DBGTASK VO4-000	DBG\$NPARSE_SHOW_TASK		16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32;1	Page 37 (8)
	65 00	0048	PUSHR #^M <r3,r6> CALLS #3, DBG\$NMATCH BBS R0, 5\$ DD 0009A PUSHL #1 PUSHAB DBG\$CS_EQUAL PUSHL R3 DD 0009F PUSHL R3 CALLS #3, DBG\$NMATCH BBC R0, 7\$ PUSHAB CALLS #3, DBG\$NMATCH R7 PUSHAB PUSHAB R7 PUSHAB R7 PUSHAB R7 PUSHAB A (ADVERB_NODE)</r3,r6>	
	00	06	## BB 00090	2210
	65	00	6 9F 0009C PUSHAB DBG\$CS_EQUAL 3 DD 0009F PUSHL R3 3 FB 000A1 CALLS #3, DBG\$NMATCH	
	65 0A	04	3 FB 000A1 CALLS #3, DBG\$NMATCH 0 E9 000A4 BLBC R0, 7\$ 2 9F 000A7 5\$: PUSHAB 4(ADVERB_NODE)	2214
	68		3 DD 000AA PUSHL R3 2 FB 000AC CALLS #2, DBG\$NSAVE_DECIMAL_INTEGER 7 11 000AF 65: RPR	
	04 A2		7 11 000AF 68: BRB 18 11 CE 000B1 78: MNEGL #1, 4(ADVERB_NODE) 11 11 000B5 BRB 18	2216 2185 2222
		83	1 DD 000B7 8\$: PUSHL #1 6 9F 000B9 PUSHAB DBG\$CS_DEADLOCK	: 2222
	65 01		3 DD 000BC PUSHL R3 3 FB 000BE CALLS #3, DBG\$NMATCH 0 D1 000C1 CMPL R0, #1	
			DD 000AA	2224
	67 52 64 54 62		0 DO 000CB MOVL RO, ADVERB NODE 2 DO 000CE MOVL ADVERB NODE, (LINK)	2225
	54	08	0 D0 000CB	2225 2227 2185 2233
		80	1 CE 000B1 7\$: MNEGL #1, 4(ADVERB_NODE) 1 11 000B5 BRB 1\$ 10 DD 000B7 8\$: PUSHL #1 16 9F 000B9 PUSHAB DBG\$CS_DEADLOCK PUSHL R3 TFB 000BE CALLS #3, DBG\$NMATCH CMPL R0, #1 4 12 000C4 BNEQ 9\$ 10 DD 000C6 PUSHL #3 CALLS #1, DBG\$GET TEMPMEM MOVL R0, ADVERB_NODE PUSHL #3 CALLS #1, DBG\$GET TEMPMEM MOVL R0, ADVERB_NODE PUSHL #1 DD 000CB MOVL ADVERB_NODE, (LINK) MOVAB 8(R2), LINK MOVAB 8(R2), LIN	2233
	65 01		1 DD 000DA 9\$: PUSHL #1 PUSHAB DBG\$CS_FULL 3 DD 000DF PUSHL R3 CALLS #3, DBG\$NMATCH CMPL R0, #1 BNEQ 10\$ 1 PUSHL #3 DD 000E9 PUSHL #3 CALLS #1, DBG\$GET TEMPMEM DD 000EB MOVL R0, ADVERB_NODE DO 000F1 MOVL ADVERB_NODE, (LINK) PER 000F8 MOVB #5, (ADVERB_NODE) DD 000FD 10\$: PUSHL #1 DD 000FD 10\$: PUSHL #1 OFF PUSHL #3 DD 00102 PUSHL #3 DD 00102 PUSHL R3 CALLS #3, DBG\$NMATCH CMPL R0, #1 DD 00107 CMPL R3 CALLS #3, DBG\$NMATCH CMPL R0, #1 DD 0010C PUSHL #3	
			4 12 000E7 BNEQ 10\$	2235
	67 52		1 FB 000EB CALLS #1, DBG\$GET TEMPMEM 0 DO 000EE MOVL RO, ADVERB NODE	
	67 52 64 54 62	08	3 DD 000E9 1 FB 000EB 0 DO 000EE MOVL RO, ADVERB NODE 2 DO 000F1 MOVL ADVERB NODE, (LINK) 2 9E 000F4 MOVB 8(R2), LINK 5 90 000FB BRB 6\$ 1 DD 000FD 10\$: PUSHL #1 6 9F 000FF PUSHL #1 6 9F 000FF PUSHL R3	2236 2237 2238 2185 2244
			2 11 000FB BRB 6\$ 1 DD 000FD 10\$: PUSHL #1	2185 2244
	65	91	1 DD 000FD 10\$: PUSHL #1 6 9F 000FF PUSHAB DBG\$CS_HOLD 3 DD 00102 PUSHL R3 5 FB 00104 CALLS #3, DBG\$NMATCH 0 D1 00107 CMPL R0, #1	
	65		6 9F 000FF PUSHAB DBG\$CS_HOLD 3 DD 00102 PUSHL R3 3 FB 00104 CALLS #3, DBG\$NMATCH 0 D1 00107 CMPL R0, #1 4 12 0010A BNEQ 11\$	
	67		O DO DOTTI MOVE DO ADVEDE NODE	2246
	67 52 64 54 62	08	2 DO 00114 MOVL ADVERB_NODE, (LINK) 2 9E 00117 MOVAB 8(R2), LINK	2247
	62		1 FB 0010E	2247 2248 2249 2185 2255
	65	90	1 DD 00120 11\$: PUSHL #1 6 9F 00122 PUSHAB DBG\$CS_PRIORITY 3 DD 00125 PUSHL R3 6 FB 00127 CALLS #3, DBG\$NMATCH	(2)

BGTASK 04-000	DBG\$NPARSE_SHOW_TASK		E 8 16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32;1	Page 38
		01 50		
		0095	D1 0012A CMPL RO, #1 13 0012D BEQL 12\$ 31 0012F BRW 21\$ DD 00132 12\$: PUSHL #3	225
		52 50	DO 00137 MOVL RO, ADVERB NODE DO 0013A MOVL ADVERB NODE, (LINK)	225
		67 01 52 50 64 52 54 08 A2	DD 00132 12\$: PUSHL #3 FB 00134	225 225 226 226
		0048 8F	DD 00144 PUSHL #1 BB 00146 PUSHR #^M <r3,r6></r3,r6>	226
		65 03	FB 0014A CALLS #3, DBG\$NMATCH EB 0014D BLBS R0, 13\$	1 224
		06 A6	DD 00150 PUSHL #1 9F 00152 PUSHAB DBG\$CS_EQUAL DD 00155 PUSHL R3	226
		65 03	DD 00155 PUSHL R3 FB 00157 CALLS #3, DBG\$NMATCH E8 0015A BLBS R0, 13\$ 31 0015D BRW 34\$	
		0171	31 0015D BRW 34\$ DD 00160 13\$: PUSHL #1 9F 00162 PUSHAB DBG\$CS_LEFT_PAREN	226
		FC A6	9F 00162 PUSHAB DBG\$CS_LEFT_PAREN DD 00165 PUSHL R3 FB 00167 CALLS #3, DBG\$NMATCH E9 0016A BLBC R0, 18\$	
		65 30 4008 8F	E9 0016A BLBC RO, 18\$ BB 0016D 14\$: PUSHR #^M <r3,sp></r3,sp>	227
		4008 8F 02 02 09 09 00028248 8F	FB 00167	227
		00028248 8F	D1 00174	227
	00 04	69 01 A2 6E	FB 0017F	227
		02 A6	E2 00182 15\$: BBSS PRIORITY, 4(ADVERB_NODE), 16\$ DD 00187 16\$: PUSHL #1 PF 00189 PUSHAB DBG\$CS_COMMA DD 0018C PUSHL R3 FB 0018E CALLS #3, DBG\$NMATCH E8 00191 BLBS R0, 14\$ DD 00194 17\$: PUSHL #1	
		65 D9 50	FB 0018E CALLS #3, DBG\$NMATCH E8 00191 BLBS R0, 14\$	227
		FE A6	DD 00194 17\$: PUSHL #1 9F 00196 PUSHAB DBG\$CS_RIGHT_PAREN DD 00199 PUSHL R3	227
		65 03 23 50	FB 0019B CALLS #3, DBG\$NMATCH E8 0019E BLBS R0, 20\$	
		000287D0 8F	BLBS RO, 20\$ DD 001A1 PUSHL #165840 31 001A7 BRW 35\$ BB 001AA 18\$: PUSHR #^M <r3.sp> FB 001AE CALLS #2, DBG\$NSAYE_DECIMAL_INTEGER</r3.sp>	228
		68 4008 8F 02 1F 6E	BB 001AA 18\$: PUSHR #^M <r3.sp> FB 001AE CALLS #2, DBG\$NSAVE_DECIMAL_INTEGER D1 001R1 PRIORITY #31</r3.sp>	228
		00028248 8F	9F 00196 DD 00199 PUSHL R3 FB 0019B CALLS #3, DBG\$NMATCH E8 0019E BLBS R0, 20\$ DD 001A1 PUSHL #165840 31 001A7 BRW 35\$ BB 001AA 18\$: PUSHR #^M <r3,sp> FB 001AE CALLS #2, DBG\$NSAVE_DECIMAL_INTEGER CMPL PRIORITY, #31 1B 001B4 BLEQU 19\$ DD 001B6 PUSHL #164424 FB 001BC CALLS #1, LIB\$SIGNAL E2 001BF 19\$: BBSS PRIORITY, 4(ADVERB_NODE), 20\$</r3,sp>	229
	00 04	69 01 A2 6E	D1 0012A 13 0012F 13 0012F 15 00 00134 15 00134 16 00134 17 00 00137 18 00134 18 00134 18 00134 18 00135 18 00134 18 00135 18 00136 18 00136 18 00136 18 00137 18 00137 18 00138 19 00138 10 00138 10 00138 10 00138 10 00138 10 00138 10 00138 10 00138 10 00138 10 001	
		FE71 05 B6 A6	E2 001BF 19\$: BBSS PRIGRITY, 4(ADVERB_NODE), 20\$ 31 001C4 20\$: BRW 1\$ DD 001C7 21\$: PUSHL #5 9F 001C9 PUSHAB DBG\$CS_STATE DD 001CC PUSHL R3 FB 001CE CALLS #3, DBG\$NMATCH D1 001D1 CMPL R0, #1 13 001D4 BEQL 22\$	229 226 230
		65	DD 001C7 21\$: PUSHL #5 9F 001C9 PUSHAB DBG\$CS_STATE DD 001CC PUSHL R3 FB 001CE CALLS #3, DBG\$NMATCH	
		65 03 01 50	DD 001CC PUSHL R3 FB 001CE CALLS #3, DBG\$NMATCH D1 001D1 CMPL R0, #1 13 001D4 BEQL 22\$	

BGTASK 04-000	DBG\$NPARSE_SHOW_TASK			16-Sep- 14-Sep-	1984 02:43:4 1984 12:17:5	49 VAX-11 Bliss-32 V4.0-742 52 [DEBUG.SRC]DBGTASK.B32;1	Page 39
			0103	31 00106	BRW	36\$	2303
	52		50	DO 001DE	MOVL	RO, ADVERB NODE	2704
	67 52 64 54	08	50 52 A2 OA	FB 001DB D0 001DE D0 001E1 9E 001E4 90 001E8 DD 001EB BB 001ED	MOVAB	#1, DBG\$GET_TEMPMEM RO, ADVERB_NODE ADVERB_NODE, (LINK) 8(R2), LINK #10, (ADVERB_NODE)	2304 2305 2306 2308
	· ·	0048	01	DD 001EB BB 001ED FB 001F1	PUSHL	#1 #1 #1 #2M <r3,r6></r3,r6>	2308
	65	0040	03	FB 001F1 EB 001F4	CALLS	#3. DBG\$NMATCH	
		06	01	DD 001F7 9F 001F9	PUSHL	DRGSCS FOLIAL	2309
	65		53	DD 001FC FB 001FE	PUSHL	R3 W3. DBG\$NMATCH	
	65 03		00CA	E8 00201 31 00204	BLBS !	RO. 23\$	
		FC	00CA 01 A6	DD 00207 23%: 9F 00209	PUSHL PUSHAB	R3 #3, DBG\$NMATCH R0, 23\$ 34\$ #1 DBG\$CS_LEFT_PAREN	2311
	65		03	DD 0020C FB 0020E E9 00211	CALLS	R3 W3. DBG\$NMATCH R0. 30\$	
	69		01	DD 00214 248: 9F 00216	PUSHL		2319
	4.6	DF	A6	DD 00219	PUSHAB	DBG\$CS_RUNNING	
	65		50	FB 0021B D1 0021E	CMPL	#3, DBG\$NMATCH RO, #1 25\$	
	04 A2		01	12 00221 00 00223	MOVL	#1. 4(ADVERB_NODE)	2320
		D9	01 A6 53	DO 00223 11 00227 DD 00229 25\$: 9F 0022B DD 0022E FB 00230	PUSHL	M1 DRGSCS READY	2322
	65		53	DD 0022E FB 00230	PUSHL	R3 #3. DBG\$NMATCH	
	65 01		03 50 06 02	D1 00/233	CMPL BNEQ	RO. #1 26\$	
	04 A2		02 2F	12 00236 D0 00238 11 0023C DD 0023E 26\$:	MOVL BRB	DBG\$CS_READY R3 #3. DBG\$NMATCH R0. #1 26\$ #2. 4(ADVERB_NODE) 29\$	2323
		E7	01 A6	DD 0023E 26\$: 9F 00240 DD 00243	PUSHL PUSHAB	DEGREE SUSPERIUED	2325
	65 01		03	FB 00245	CALLS	R3 #3. DBG\$NMATCH R0. #1 27\$ #4. 4(ADVERB_NODE)	1
			06	D1 00248 12 0024B	BNEQ	RO #1 27\$	2724
	04 A2		14	00 0024D 11 00251	BRB	4(ADVERB_NODE)	2326
		F1	01 A6	DD 00253 278: 9F 00255 DD 00258 FB 0025A	PUSHAB	DBG\$CS_TERMINATED	2328
	65		03	DD 00258 FB 0025A	CALLS	M3. DBG\$NMATCH	
	04 A2		06	12 00260	BNEQ	DBG\$CS_TERMINATED R3 N3. DBG\$NMATCH R0. N1 28\$ N8. 4(ADVERB_NODE) 29\$ R3 N1. DBG\$SYNTAX_ERROR	2329
	04 Ac		05	DO 00262 11 00266 DD 00268 28\$:	BRB	29\$ R3	2334
	64		Ó1	DD 00268 28\$: FB 0026A DD 0026D 29\$:	CALLS	1. DBG\$SYNTAX_ERROR	2338

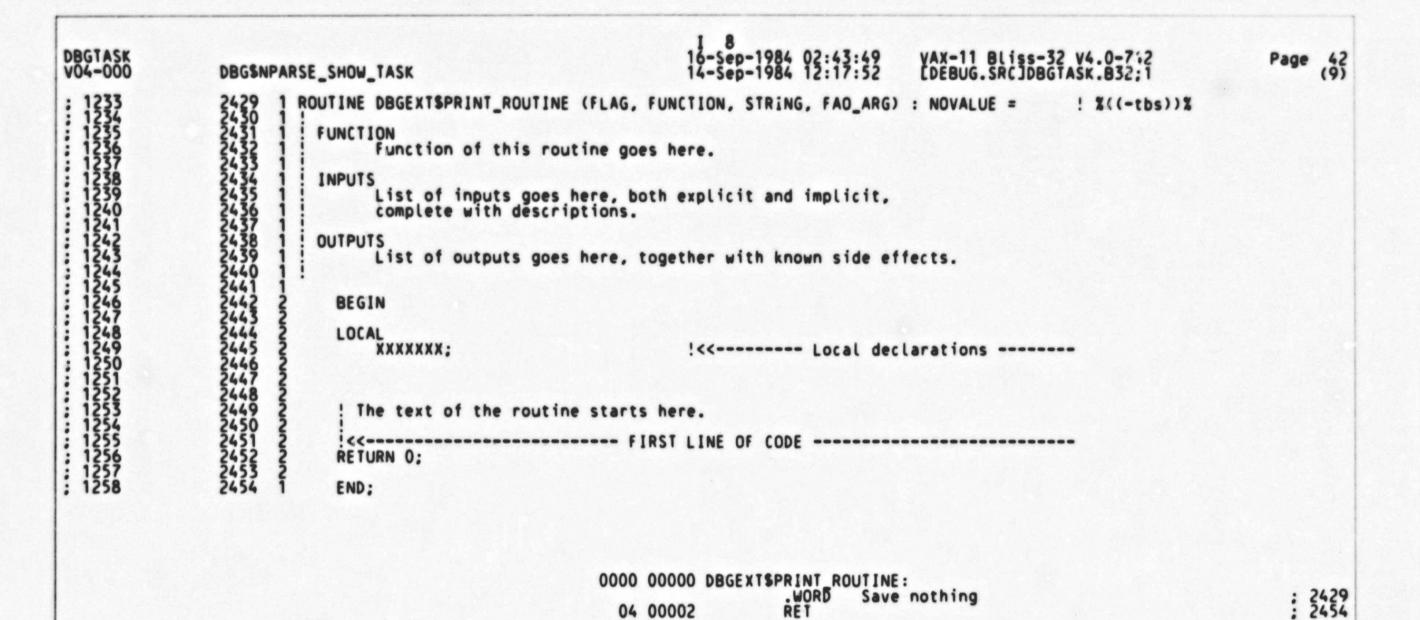
DBGTASK VO4-000	DBG\$NPARSE_SHOW_TASK					16-Se 14-Se	p-1984 02:43 p-1984 12:17	3:49 VAX-11 Bliss-32 V4.0-742 7:52 [DEBUG.SRC]DBGTASK.B32;1	Page 4(8)
			02	A6	9F	0026F	PUSHAB	DBG\$CS_COMMA	
		65 9A		03	FB	00274	CALLS	#3. DBG\$NMATCH RO. 24\$ 17\$	
		70		FF17	31	0027A 0027D 30\$	BRW	17\$ #1	233
			DF	A6	DD 9F	0027F	PUSHAB	DBG\$CS RUNNING	234
		65		03	FB	00284	CALLS	R3 #3, DBG\$NMATCH R0, #1 31\$	
	~			06	12	0028A	BNEQ	31\$	27/1
	04	A2		01 72 01	11	00290	BRB	#1 4(ADVERB_NODE) 38\$ #1	2348
			09	A6	DD 9F	00292 31 s	PUSHAB	DBG\$CS_READY	2350
		65 01		A6 53	FB	00297 00299	CALLS	DBG\$CS_READY R3 #3. DBG\$NMATCH R0. #1 32\$ #2. 4(ADVERB_NODE) 38\$	
				50 06 02 50	12	0029C 0029F	BNEQ	RO. #1	!
	04	A2		50	DO 11	002A1 002A5	MOVL BRB	#2, 4(ADVERB_NODE)	235
			E7	01 A6	DD 9F	002A7 32\$	PUSHL PUSHAB	DBGSCS SUSPENDED	235
		65 01		03	FB	002AC	PUSHL	M3. DBG\$NMATCH	
				A505004816555058020A5	12	002B1 002B4	CMPL BNEQ	33\$	
	04	A2		04 48	DO 11	002B6 002BA	MOVL BRB	#4, 4(ADVERB_NODE)	2356
			F1	01 A6	DD 9F	002BC 33\$ 002BE 002C1 002C3 002C6 002C9 002CB	PUSHL PUSHAB	DBG\$CS_TERMINATED	2350
		65		53	DD FB	002C1 002C3	PUSHL	R5	
				50	D1 12	002C6 002C9	CMPL BNEQ	#3, DBG\$NMATCH RO, #1 37\$	
	04	A2		08	DO 11	002CB 002CF	MOVL BRB	#8, 4(ADVERB_NODE)	2357
		69 000	028000	8F 01	DD FB	002D1 34\$ 002D7 35\$: PUSHL : CALLS	#164048 #1. LIB\$SIGNAL	2366
				28	11	002DA 002DC 36\$	BRB : PUSHL	#8, 4(ADVERB_NODE) 38\$ #164048 #1, LIB\$SIGNAL 38\$	218
			BC	A6	PF DD	002D1 34\$ 002D7 35\$ 002DA 002DC 36\$ 002E1 002E3 002E6 002E9 002EB 002ED	PUSHAB	DBG3C3 STATISTICS	
		65 01		03	FB D1	002E3	CALLS	R3 W3. DBG\$NMATCH R0. W1 37\$ W1. DBG\$GET_TEMPMEM	
				14	12	002E9	BNEQ	37\$	2375
		67		01	FB	002ED	CALLS	#1, DBG\$GET_TEMPMEM	
		67 52 64 54 62	08	50 52 A2 0B 05	DÖ	002F3	PUSHAB PUSHAS PU	#1, DBG\$GET_TEMPMEM RO, ADVERB_NODE ADVERB_NODE, (LINK) 8(R2), LINK #11, (ADVERB_NODE) 38\$ R3 #1, DBG\$SYNTAX_ERROR 1\$ (LINK)	237
		62	00	OB	90	002F6 002FA 002FD	MOVB	#11, (ADVERB_NODE)	2376 2377 2378 2189 2389
		6A		53	FB	002FF 378	: PUSHL	R3	2385
		OA.		FD31	31	00304 385 00307 395	: BRW	18	2180

D

DBGTASK V04-000	DBG\$NPARSE_SHOW_TASK		H 8 16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32;1	Page 41 (8)
		04 65 47	01 DD 00309 A6 9F 0030B S3 DD 0030E DS FB 00310 CALLS #3 DBG\$NMATCH DS E8 00313 BLBS RO, 41\$ 04 DD 0031B O1 FB 0031D CALLS #1 DBG\$GET TEMPMEM MOVL RO, NOUN NODE S2 DD 00323 MOVL NOUN NODE MOVAB 8(R2), LINK PUSHL #1 DD 0032A PUSHL #1 NOUN NODE S3 DD 0032C PUSHL NOUN NODE MOVZBL DBG\$GB_RADIX, -(SP) PUSHL R3 O4 FB 00337 CALLS #4, DBG\$NPARSE_EXPRESSION PUSHL R3 O5 DD 00345 CALLS #3, DBG\$NMATCH DBG\$CS_COMMA PUSHL R3 O5 FB 00345 CALLS #3, DBG\$NMATCH DBG\$CS_CR PUSHL R3 O5 FB 00345 CALLS #3, DBG\$NMATCH DBG\$CS_CR PUSHL R3 O5 FB 00352 CALLS #3, DBG\$NMATCH DBG\$CS_CR PUSHL R3 O5 FB 00355 DD 00358 PUSHL R3	2394
	54 08	AC	50 E8 00313 BLBS RO, 41\$ 08 C1 00316 ADDL3 #8, VERB_NODE, LINK 04 DD 0031B 40\$: PUSHL #4 01 FB 0031D CALLS #1, DBG\$GET_TEMPMEM	2397 2404
		67 52 64 54 08	01 FB 0031D CALLS #1, DBG\$GET_TEMPMEM 50 D0 00320 MOVL RO, NOUN NODE 52 D0 00323 MOVL NOUN NODE, (LINK) A2 9E 00326 MOVAB 8(R2), LINK 01 DD 0032A PUSHL #1	2405 2406 2411
	00000000	7E 00000000G	52 DD 0032C PUSHL NOUN_NODE 00 9A 0032E MOVZBL DBG\$GB_RADIX, -(SP) 53 DD 00335 PUSHL R3	
	0000000G	02	04 FB 00337	2417
		65 00 04	03 FB 00345 CALLS #3, DBG\$NMATCH 50 E8 00348 BLBS R0, 40\$ 01 DD 0034B PUSHL #1 A6 9F 0034D PUSHAB DBG\$CS_CR	2419
		65 05	A6 9F 0034D PUSHAB DBG\$CS_CR 53 DD 00350 PUSHL R3 03 FB 00352 CALLS #3, DBG\$NMATCH 50 E8 00355 BLBS R0, 41\$ 53 DD 00358 PUSHL R3	2,21
		6A	50 E8 00355 BLBS RO, 41\$ 53 DD 00358 PUSHL R3 01 FB 0035A CALLS #1, DBG\$SYNTAX_ERROR 04 0035D 41\$: RET	2421

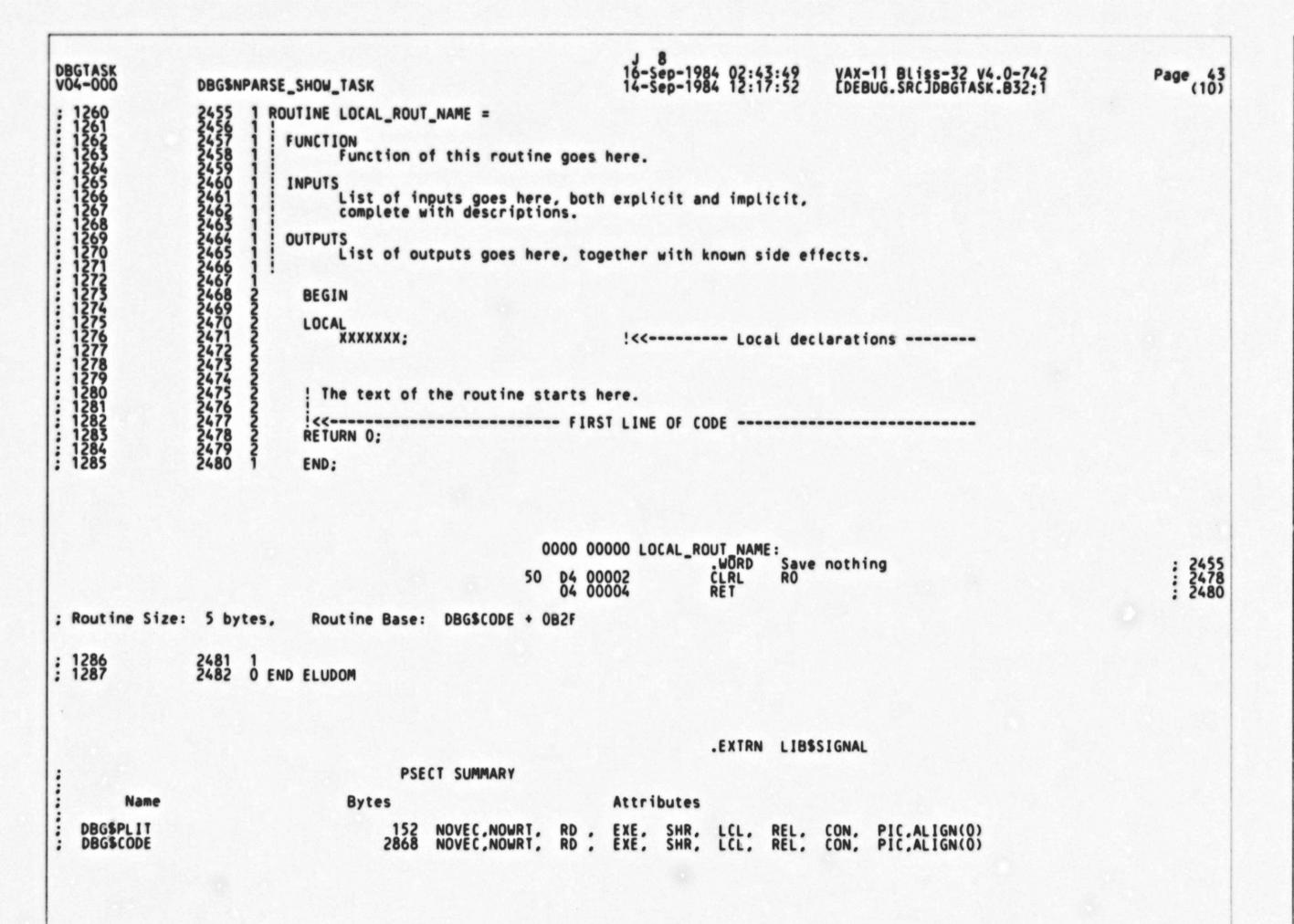
; Routine Size: 862 bytes, Routine Base: DBG\$CODE + 07CE

; 1231 2428 1



Routine Base: DBG\$CODE + OB2C

: Routine Size: 3 bytes,



DBGTASK V04-000 DBG\$NPARSE_SHOW_TASK			16-Sep-19 14-Sep-19	84 02:43:49 84 12:17:52	VAX-11 Bliss-32 V4.0-742 [DEBUG.SRC]DBGTASK.B32;1	Page 44 (10)
: Library S	tatistics					
file	Total	- Symbols Loaded	Percent	Pages Mapped	Processing Time	
_\$255\$DUA28:[SYSLIB]LIB.L32:1 _\$255\$DUA28:[DEBUG.OBJ]STRUCDEF.L32:1 _\$255\$DUA28:[DEBUG.OBJ]DBGLIB.L32:1	18619 32 1545	0 0 31	0	1000 7 97	00:01.9 00:00.2 00:02.0	
: ">5233900W50: FDEBOG.OR33D21WECKD2.F35:1	/10			**	00.00	

00:00.3 00:00.3 00:00.3

COMMAND QUALIFIERS

418 386 150

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:DBGTASK/OBJ=OBJ\$:DBGTASK MSRC\$:DBGTASK/UPDATE=(ENH\$:DBGTASK)

092

: Size: 2868 code + 152 data bytes
: Run Time: 00:52.7
: Elapsed Time: 00:58.7
: Lines/CPU Min: 2828
: Lexemes/CPU-Min: 16781
: Memory Used: 451 pages
: Compilation Complete

\$255\$DUA28:[DEBUG.OBJ]DBGMSG.L32:1 \$255\$DUA28:[DEBUG.OBJ]DBGGEN.L32:1 0096 AH-BT13A-SE

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